The American Artisan
And Hardware Record

Vol. 56. No. 7. CHICAGO, AUGUST 15, 1908. $2.00 Per Year.

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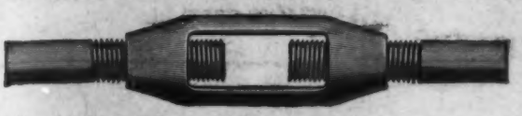
TURN BUCKLES



A full line of Bolts, Bolt Ends, Rivets, Lag Screws, Nuts, Washers and Carriage Hardware.

COLUMBUS BOLT WORKS, COLUMBUS, OHIO.

GET THE LIVE LINE
"AMERICAN SEAL"
Elastic Oil Roofing Cement, Stove Putty and Asbestos Furnace Cement
For Furnaces, Stoves, Ranges and Roofs.
Jobbers write to-day for prices
THE
Wm. Connors Paint Mfg. Co.
Makers. TROY, N. Y.
Western Agents: Friedley-Voshardt Co., 194 Mather St., Chicago, Ill.
Southwestern Agents: Stockhoff Supply Co., 107 N. Main St., St. Louis, Mo.

This Space for Sale.
Inquire of Daniel Stern,
355 Dearborn St., Chicago

MATCHLESS
Spring and Pivot Hinges
Floor Hinges, Jamb Hinges and Hardware Specialties.
The fact that Matchless Spring Hinges have been on the market since 1895 and that in that time not one set has required repairs from fault of hinge speaks very well for their serviceability and wearing qualities.
If your Jobber cannot furnish them write us.
LAWSON MFG. CO.
40 Dearborn St., Chicago, Ill.

WIZARD
ADJUSTABLE HINGE HANGER

Made of best quality Malleable Iron. The two sets of Steel Roller Bearings reduce friction and make an exceptionally easy running hanger. Lateral and Vertical adjustment. No special track required. *Ask your jobber or write us.*
SAFETY DOOR HANGER CO.
Manufacturers
Ashland, O., Hamilton, Ont., Can.

"NEVER-BREAK"
TRADE MARK

Catalog Free

"NEVER-BREAK"
STEEL SPIDERS, GRIDDLES AND KETTLES
WILL NOT Scale Off like cheap enamel.
WILL NOT Scorch or Burn like light fry pans and skillets.
WILL NOT Absorb Grease or Flavors like cast iron.
THE AVERY STAMPING CO.
CLEVELAND, OHIO
Sole Manufacturers
"NEVER-BREAK" Goods.

BUY, SELL AND USE
FILES
bearing the Trade Mark
FILES OF QUALITY
DELTA
TRADE MARK DELTA
And Thus Eliminate All Chances
Manufactured by an independent organization; not connected with any trust in any form, shape or manner.
CARVER FILE CO., Philadelphia, Pa.

PULLMAN SASH BALANCES

Are you selling them?
IN USE EVERYWHERE
Send us your orders
PULLMAN MFG. COMPANY
SOPHIA STREET
ROCHESTER, N. Y., U. S. A

G. N. HOOPER, Dubuque, Ia.
Vitreous Enameling
TECHNOLOGIST
Designs, builds and starts new plants, improves quality and reduces the costs in those already established.

Porcelain Enamel Formulas
Any kind or color, for cast iron and sheet steel, with full instructions.
Start new—and improve quality of ware in old plants.
34 Years' Practical Experience
JOHN PEIL, Columbus, O.

"As Steady as a Lamp"

The Anthra Cinderella Double Heating Oak

Is equipped with the **Common Sense Draft Governor,** a device that has no equal for increasing the Power and Economy of Direct Draft Stoves.

It is Worth $5.00 a Year On Any Stove

Furnished FREE With Every Anthra Cinderella

No better Oak Stove is built by anybody—and the Draft Governor makes it just that much better than its nearest competitor.

Popular Prices

Some people say we sell them too cheap.

STOVE & RANGE CO. OF PITTSBURGH

PITTSBURGH, PA.

BOYNTON'S STEEL DOME FURNACE

WHY

Are Boynton's Square Pot Furnaces

Taking So Well Among the Trade?

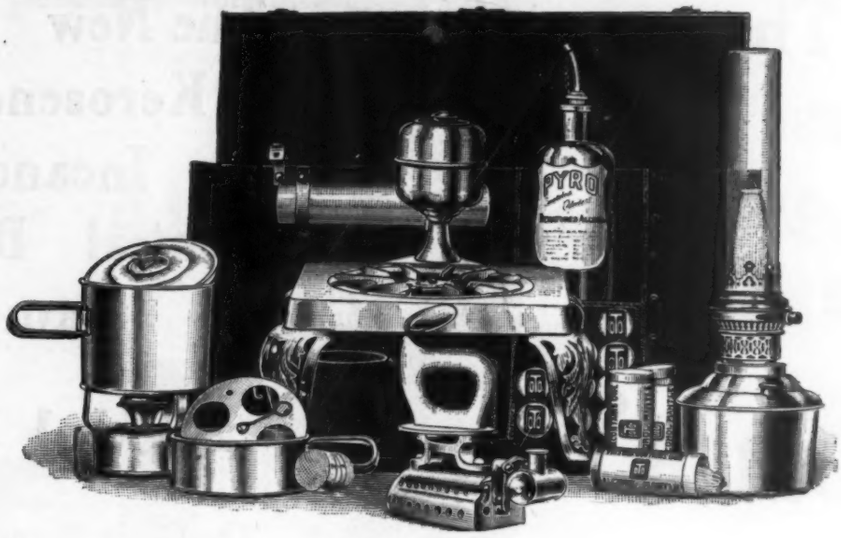
Because they not only have talking and selling points, but because these talking and selling points are **real points of merit** that will stand back of the dealer after he has sold and installed the apparatus.

Write Us for Our Catalogue and Full Description

GET IN LINE

The Boynton Furnace Co.

207-209 Water St., New York
147-149 Lake St., Chicago



Mr Watchful

Your store is the one which is noticeable among the surrounding shops, It is the one which has that look of freshness about it. Its show windows are clean, well lighted and neatly trimmed. In fact, its appearance among stores is like the appearance of the man whose genial personality attracts other men, and its direction is under the eye of just such a man.

Mr Watchful

Of course you have read and heard much of denatured alcohol and of the appliances for burning same, and as we are manufacturers and importers of everything which pertains to this economical fuel, your store is the one in your locality in which we would like our wares displayed. Displaying them is selling them. We need you and you need us. May we send you sample outfit of "OTO" quality denatured alcohol burning appliances as shown below, at a price that will allow you over sixty per cent (60%) profit? Order the following outfit now:

1	No. 101	DENATURED ALCOHOL STOVE	-	(Illustrated above)	$4.00
1	" 302	" " FLAT IRON		" "	4.00
1	" 205	" " LAMP		" "	4.25
1	" 160	" " CAMPING OUTFIT		" "	1.50
12	" 201M	" " MANTLES		" "	1.80
3	" 201C	HEATPROOF JENA CHIMNEY	- - -	- - -	.60
				Your Selling Price	$16.15
				Cost to You	**9.30**
				Your Profit	**$6.85**

OTTO THURNAUER.

IMPORT MANUFACTURING EXPORT

310-318 SIXTH AVENUE,

NEW YORK,

"The Greatest Light of The Age"

"Conia"

These Conia Burners give a light from **100** to **350** Candle Power, and the flame can be regulated to any desired height. Positively smokeless, and on account of the enormous candle power will not blacken the mantle.

Mantles in ordinary use will last at least a year.

Retail Price, 35 Cts.

Burners, complete to fit

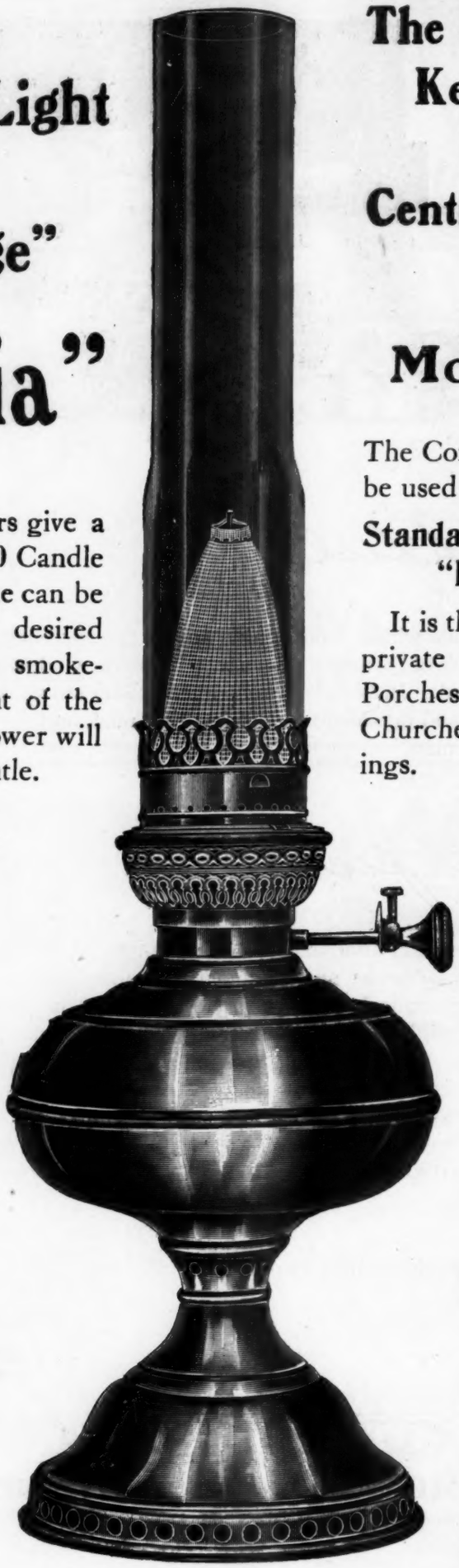
Standard Oil Company's "Rayo"

Central Draught Lamp, **$3.50.**

Retail Price, Table Lamp complete,

$5.50

Write today. We want agents in open territory.



The New Kerosene Incandescent Central Draught Lamp

Model 1909

The Conia Burners can also be used on the

Standard Oil Company's "Rayo" Lamp.

It is the Greatest Light for private Residences, Halls, Porches, Country Stores, Churches and Public Buildings.

Chimneys are made in Jena, Germany and will not break from heat.

Retail Price, 35 Cts.

G. Cohn & Co.

(Inc.)

337 Broadway

NEW YORK

"Bengalia" Alcohol Incandescent Lamps

For indoor or outdoor lighting, adaptable to any ordinary D collar lamp.

Superior to any incandescent gas lamp.

No soot — no danger — no smell — no smoke — no wick-burning.

Positively No Blacking of Mantle

A three-year guarantee with each lamp.

Costs 3/4c per Hour

Gives 75 Candle Power.

Consumes one quart of Denatured Alcohol in 16 hours.

We Want One Dealer In Each Town

To handle our specialties. Now is the time to "get in on the ground floor" and establish a good trade in Denatured Alcohol Utilities which are taking the trade by storm.

Write today for Special proposition and discounts

G. COHN & CO., INC.

337 BROADWAY, NEW YORK

THE

MONITOR RADIATOR

WITH ITS

1683 SQUARE INCHES

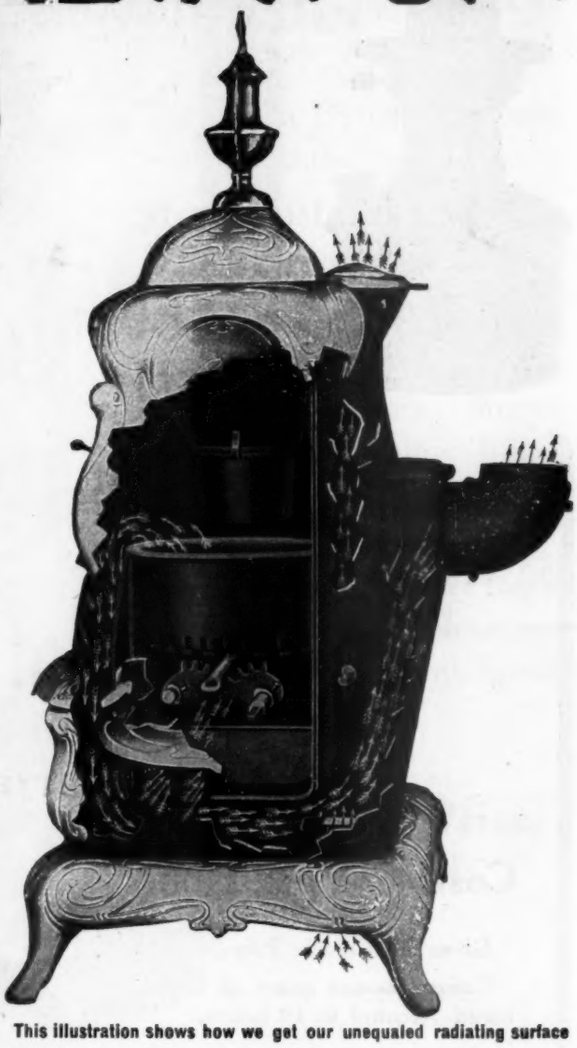
more radiating surface than any other Base Burner made. Is the

Best Business Producer

of any Hard Coal Base Burner on the market today.

Dealers who are in a rut and finding cause to complain of the stove business, should investigate this rapid seller.

REMEMBER Only one stove can be the Best, and at the present time that stove is the **Monitor Radiator,** the Base Burner with the five front flues.



This illustration shows how we get our unequaled radiating surface

Catalog containing full detailed description and price will be sent upon application.

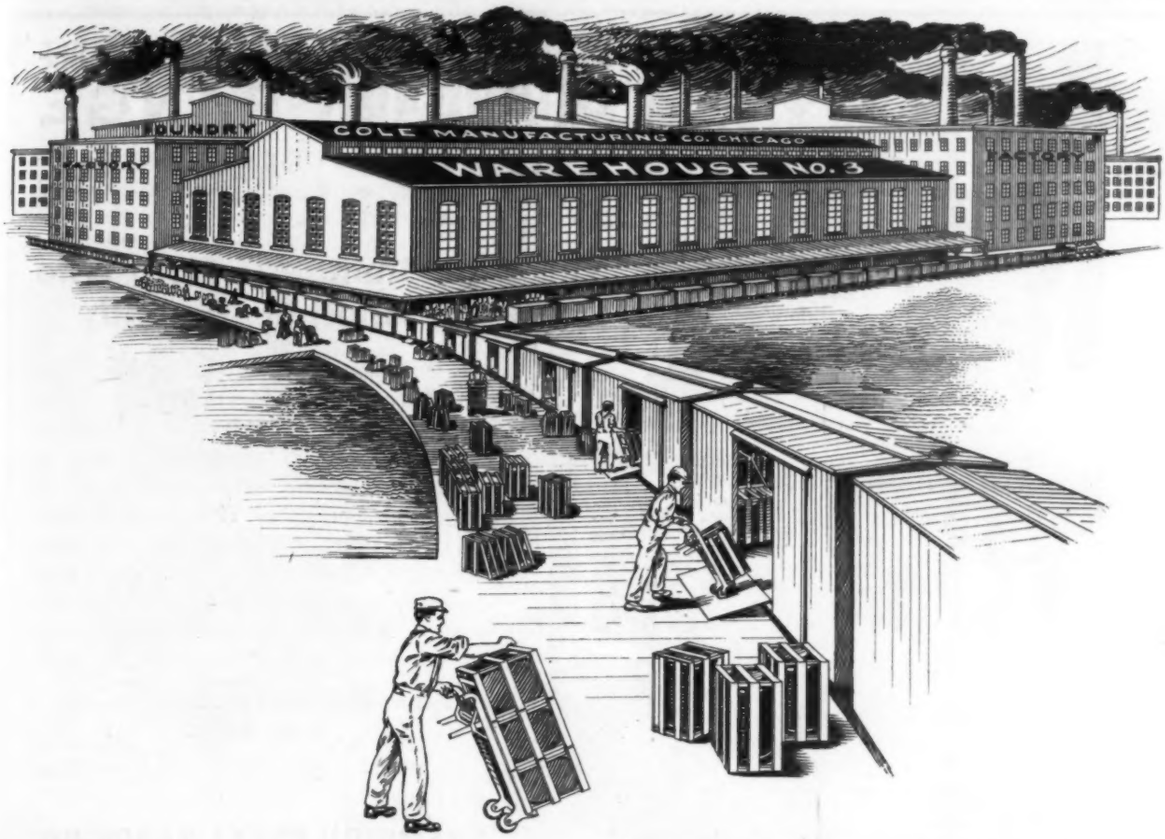
THE MONITOR STOVE & RANGE CO.

MANUFACTURERS

CINCINNATI, OHIO

DISTRIBUTORS:

For the state of Michigan, MORLEY BROS., Saginaw, Mich.
For the state of Minnesota and North West, THE GREAT WESTERN STOVE AND REPAIR CO., Minneapolis, Minn.
For the state of Wisconsin, MORLEY MURPHY HARDWARE CO., Green Bay, Wis.
For the states of Nebraska, Wyoming, Western Iowa and the Black Hills, PAXTON & GALLAGHER CO., Omaha, Neb.



COLE MANUFACTURING CO.

Now Shipping

2000 Hot Blast Stoves Daily

Important Announcement

In prosperous years dealers always **over buy,** and in dull years they always **under buy.**

This will be a great Hot Blast and Air Tight Stove year, because the public will want **medium priced fuel saving stoves.**

Place your orders at once for your needs. Don't wait for our traveling men. Your season will begin inside two weeks, and Hot Blasts and Air Tights are liable to be scarce when the rush is on.

The total manufactured stove product today is under 70 per cent of normal, with the demand likely to be 90 to 100 per cent.

Cole's Original Hot Blast
For Soft Coal, Lignite, Hard Coal, Wood or Cobs.

Cole's Original Air Tight
725 Pattern
For Wood and Lighter Fuel.

Cole's Radiant
Magazine Hard Coal Heater. For Hard Coal and Crushed Coke.

Cole Manufacturing Co.

3218-38 So. Western Ave.
CHICAGO, ILL.

CHAMPION INTERCHANGEABLE RANGE

This is an INTERCHANGEABLE RANGE, not a combination range, nor a coal and gas range bolted together. It is something new.

You Can Change It from One Fuel to Another Instantly

This Range is bound to prove a big seller, it has so many superior features. For instance, if gas is being burned and it gives out or gets weak, in ten seconds, it can be changed to coal and the cooking can go on without interruption. **That's a Big Selling Point** which will appeal to every user of Ranges. There are others too, and they are going to create a big demand for this Range. Are you going to be able to meet the demand in your vicinity?

Better secure the agency at once. Write today.

We would be pleased to send you catalog and prices.

CHAMPION STEEL RANGE CO.

3950 W. 25th St., CLEVELAND, O.

VAN'S

Patent Improved Wrought Steel Portable

RANGE

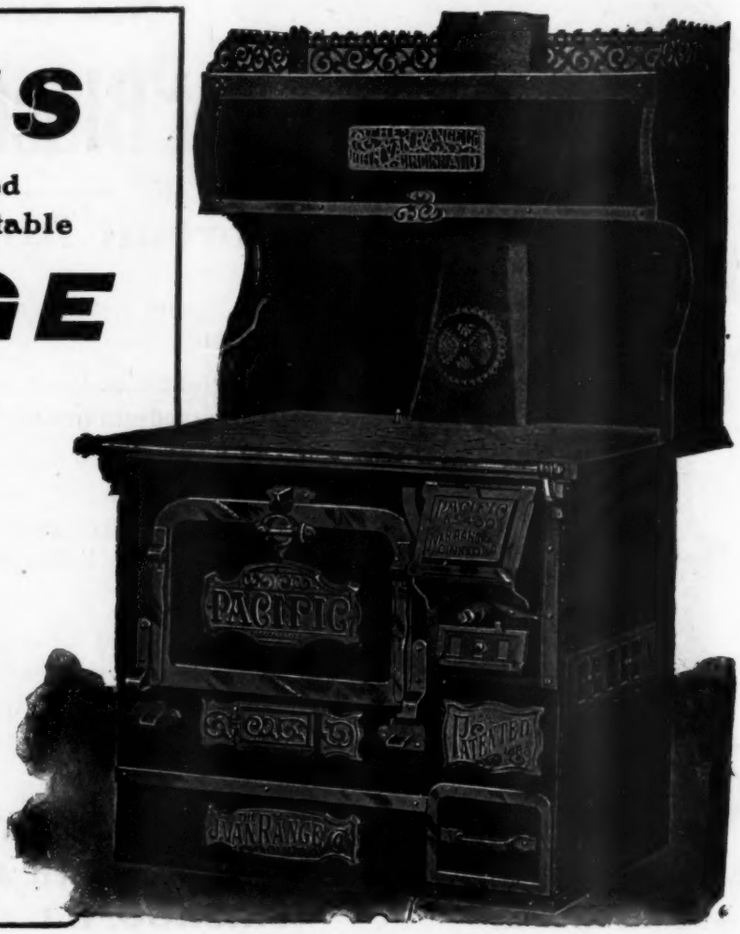
For Hotels, Restaurants, Public Institutions, Boarding Houses and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The

JOHN VAN RANGE CO.

Southwest Corner 5th and Broadway

CINCINNATI - - OHIO



THE SUCCESS OAK

The Handsomest, the Best Working and the Best Heating Oak Stove Made.

The Success Oak is a fuel saver, a quality that appeals to all buyers. There are air tubes passing down both sides inside the steel body and drawn into a Gas Ring, which extends around the top of the fire-pot so that the fresh air, by the time it reaches the fire, ignites the black smoke and gases. This means a big saving in fuel and is only one of the decided advantages this stove has over all other oak stoves.

The Fire-pot is heavy, the Base large and the Stove is absolutely air-tight.

The Success Oak can also be had with fittings which permit of the hot air pipe being extended into the room above, throwing as much heat into the second floor as a furnace would.

WRITE TO-DAY FOR OUR CATALOG.

SHERIDAN STOVE MFG. CO., Quincy, Ills.

FOSTER'S BONANZA

With Our Patented Removable Oven Plate

A Range with selling features which make it a most profitable one for the trade to handle

A SPECIAL FEATURE is the Removable Top and Front Oven Plate. By a patented method, either oven plate can be replaced in fifteen minutes time by removing the covers of the Range and taking out three bolts.

This is a most convenient range for the consumer, as high shelf, high closet or reservoir can be added at any time.

It has a balanced drop oven door and is a complete and satisfactory range in every detail.

As trade winners Foster's Ranges are without a peer on the market. They are money makers for the dealer and a satisfaction to the consumer.

Write for Our Catalog

THE FOSTER STOVE CO.

IRONTON, OHIO

A RANGE at the Price of a RANGETTE!

Oven, full size, 18x18x12, with powerful burner, corrugated heavy cast iron bottom, detachable linings, detachable top burners, adjustable mixers, polished steel body, all one-piece burners—in short a perfect range, made by experts from the best materials with skilled workmen, and fully warranted to do satisfactory work.

THE PRICE—T'WILL SURPRISE YOU

The cut shows our No. 60-B; we make in all 66 styles and sizes of ranges, heaters and hot plates. Ask for our Catalogues Nos. 15 and 16.

With a trebled capacity we are looking for wider representation, and have an attractive proposition.

American Beauty Stove Company
ERIE, PA.

Place your orders for prompt attention with

THE OLD RELIABLE

Ohio Stove Company

PORTSMOUTH, OHIO

Satisfactory service assured under entirely new management.

THE
"ONE-MINUTE"
MONITOR RADIATOR STOVE
(BASE BURNER)

IT SELLS IN ONE MINUTE

SECURE THE AGENCY NOW OR YOUR COMPETITOR WILL

PAXTON & GALLAGHER COMPANY
OMAHA, NEB.

EXCLUSIVE DISTRIBUTORS FOR THE WEST

Write for Circulars and Terms

The Ideal Epworth Acetylene Generators

Are Ideal in construction, Ideal in light producing power, Ideal in giving out steady light, Ideal in selling qualities, Ideal in lighting Dwellings, Stores, Hotels, Churches and Towns. Acetylene light is the safest, best, cheapest, brightest, finest light in the world, when produced in the Ideal Epworth Generators.

Satisfaction Guaranteed. Agents Wanted.

IDEAL EPWORTH ACETYLENE CO., JOHNSTOWN, PA. (Successors to Epworth Gas, Light & Heating Co., Waterloo, Iowa. WATERLOO, IOWA

BAKER'S RADIATOR

The latest creation in square heaters and a **wonder for all-round service.** All the modern features of first-class heaters are embodied in this stove as well as distinctive features of its own which give it points of merit not to be found in other stoves of similar construction.

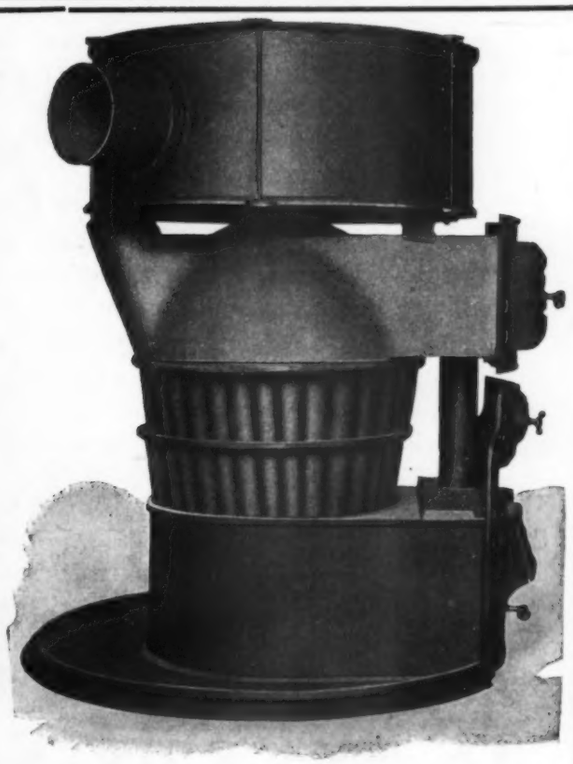
BAKER'S RADIATOR is Absolutely Air-tight; has a one-piece Combustion Chamber; Check Damper in Top; Shaking, and Draw Center Grate and Hot Air Attachments for Heating Upper Rooms.

It makes a fine appearance, the nickel parts being of the latest and most beautiful designs in ornamentation.

Our Catalog may be had upon application. Write for it.

Snyder & Baker Stove Works

BELLEVILLE, ILLINOIS



What's the use of putting a lot of metal in the Ash Pit that never comes in contact with the heat. We make this Ash Pit out of 8-gauge steel, which saves about 250 lbs. weight per furnace and we give the dealers the advantage of this. The balance of the furnace is the same as the ever reliable "FOX" that has stood the test of time. Write for prices and see where we can save you dollars.

THE FOX FURNACE COMPANY, ELYRIA, OHIO

Novelty Warm Air System of Heating and Ventilation

IDEAL NOVELTY CAST-IRON SELF CLEANING FURNACE
(ONE OF OUR TWELVE STYLES)

It is important to heat a building properly. It is even more important that it should be properly ventilated. Not one residence in ten thousand is healthfully ventilated. It will some day be considered a crime to construct a human dwelling without any formal scheme for renewing the air in it.

Architects, furnacemen and the public are beginning to realize the importance of ventilation, but indirect steam and water plants are too costly for most residences, and so the unhealthful, unsanitary method of heating by direct radiation continues to be installed in many residences.

The Novelty System solves the problem. It has every advantage of indirect steam or water heating; and systematic, adequate ventilation in addition. It costs no more than direct steam if the building is properly planned for its installation. It is cleanly and efficient. No case of failure has ever attended its operation.

Our Novelty Furnace Handbook is the textbook of the Novelty System of Heating and Ventilation. This is the only treatise ever published that gives architects and furnace dealers definite, positive, authoritative rules and directions for planning, specifying and installing a correct warm air system of heating **and ventilation.**

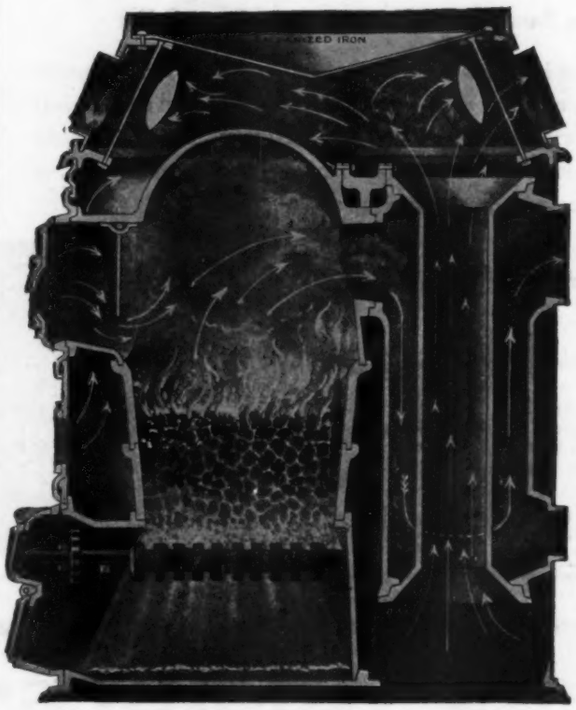
We make Novelty Furnaces that are absolutely and permanently gastight. We make them in greater variety of sizes and in larger capacities than any line produced elsewhere.

We invite architects, furnace dealers and heating contractors to study the merits of the Novelty System for the promotion of perfect heating and healthful ventilation. We furnish the Novelty Furnace Handbook to architects upon application and to all furnace dealers who handle Novelty Furnaces.

Abram Cox Stove Company

15 to 19 West Lake St.
CHICAGO

American & Dauphin Sts.
PHILADELPHIA



Shaded Sectional Cut

of the

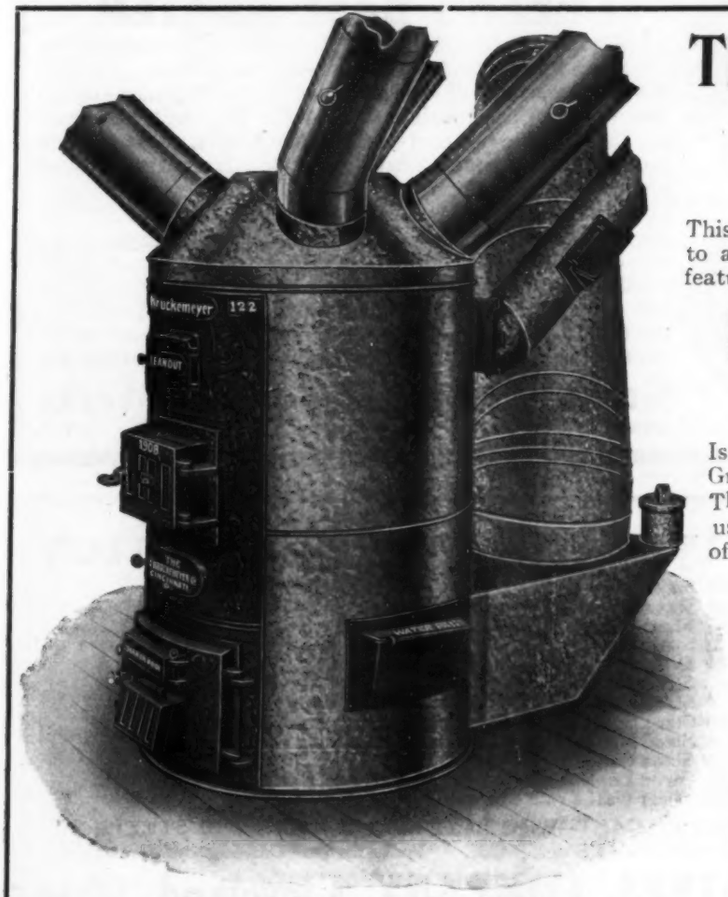
"Low Down" Crown Warm Air Furnace

Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.

The March-Brownback Stove Co.

POTTSTOWN, PA.

Chicago Agency, JOHN KONTNY, 264 South Clinton Street.



Made with Steel or Cast Iron Radiator.

The Kruckemeyer Furnace

MADE IN SIX SIZES

This is a splendid all around heater adapted to all climates and possessing all the best features of furnace construction.

Burns Hard or Soft Coal or Coke

Is equipped with Round Draw Center Grate, and is a perfect worker.

The quality of cast iron and sheet steel used in the construction of this furnace are of the very best.

Dealers who wish to handle a first-class furnace should communicate with us.

Prices upon application. Write for them.

The L. Kruckemeyer Co.

Heating and Ventilating Engineers

Cincinnati, Ohio

Gilt Edge Radium Furnace

An Economical Heater and a Great Seller

This furnace is just a little bit better than all other furnaces of its kind, and has none of their defects. It is an economical heater, every particle of fuel being utilized. It burns hard coal and block wood. We also have other furnaces, all of them of recognized merit and great trade winners.

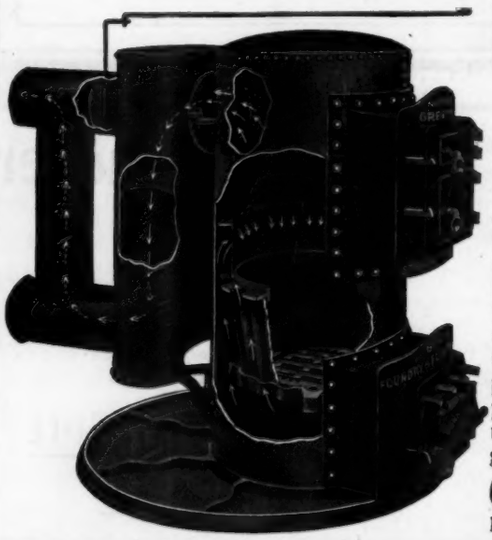
Write for Our Furnace Catalog

Schwab's Side Wall Registers

A factor in the modern method of heating a room which is a great improvement on the old fashioned floor register. **SCHWAB'S Side Wall Registers are noiseless in operation, best in construction and neatest in design.** Write for illustrated and descriptive matter.

R. J. SCHWAB & SONS CO., Milwaukee, Wis.

Your Furnace Business



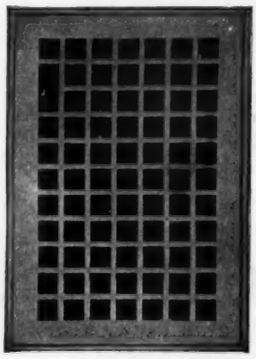
in 1908 will be much larger than it was in 1907, if you can show your prospective customers something better than your competitor is showing. Why not sell a furnace combining all of the desirable features of furnace heating?

GREEN'S BASE HEATER

is built with a **slotted fire pot,** thoroughly consuming the smoke and gases, and **reducing the cost of fuel.** The fire pot is the most durable of any used in Steel Furnaces as the **ashes cannot accumulate behind it.** The heat penetrating through the pot and steel surrounding it, makes **every inch of this furnace heating surface from the bottom plate to the top.** A powerful heater, something good which your customer will appreciate, something better than your competitor can show. Large radiator with **long smoke travel; double feed doors;** grate bars which operate **independently of one another,** with hollow centers: deep ash pit. A furnace which **costs no more than any good furnace,** but heavy, durable, combining all of the **advantageous features of furnace heating. Write for our Catalogue.**

Green Foundry & Furnace Works

Dept. "A" DES MOINES, IOWA



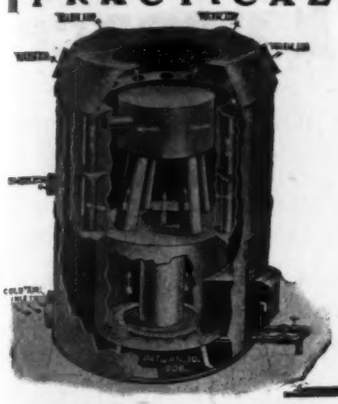
Variety=Quality=Efficiency

168 Sizes Floor Registers in five designs Vertical Wheel.
84 Sizes Floor Registers in two designs Glide Movement.
37 Sizes Convex Registers in three designs.
11 Sizes Circular Top Registers in two designs.
14 Sizes Round Registers in two designs.
42 Sizes Mouse Proof Vent Plates.
4 Sizes Convex Base Vents.
10 Sizes Special Side Wall Registers in three designs.
6 Sizes Reversible Wafers in two designs.
3 Sizes Pedestal Registers.
43 Sizes Lock Asylum Registers in two designs.
135 Sizes Wall Frames 2" and 4".

FERROSTEEL CAST—WROUGHT STEEL—MODIFIED STEEL.
Every known Special and Stock finish. Write for our Catalog and discounts.

FERROSTEEL COMPANY, Cleveland, Ohio.

PRACTICAL GAS FURNACES



¶ Most *practical, efficient, economical* and *durable* gas furnaces manufactured for heating dwellings, churches, stores, etc.

¶ All parts covered by patents.

¶ Send for descriptive catalog and prices.

W. H. RAMALEY COMPANY
Patentees and Manufacturers
PITTSBURGH, PA.

CELLULAR OVERDRAFT FIREPOT

Found Only in Our Furnaces
THE BONNOT COMPANY ∴ CANTON, OHIO

THE APEX WARM AIR FURNACE

is an extra heavy, durable furnace with **a most powerful heating capacity.** Its construction is strong enough to resist the fiercest fire. Absolutely gas tight. Will burn hard coal, soft coal or coke. Simple to operate, economical and thoroughly efficient.

Write to-day for Catalogue

YOUNGSTOWN FURNACE & SUPPLY COMPANY, Youngstown, Ohio
Chicago Office, 211-213 Lake Street
ROOD & McINTYRE, Kansas City, Mo., Southwestern Distributors

Something New

Klymax

Modern Brooder Heater
With Automatic Regulator Attachment.

For Hovers, Conservatories and Small Greenhouses.

Fills a long felt want. Not only controls the fire, but also the temperature.

It is Reliable, Efficient and Economical.

Send for interesting Catalog and Prices.

Kellogg-Mackay-Cameron Co.
BOILERS and RADIATORS
1250 Michigan Ave.
CHICAGO

The FORAMINOUS FIRE PLATE COVER

(PATENTED)

Makes soft coal generate gas which lights and burns in blue or crimson flame jets above the fire plate and makes a heating stove which formerly heated only one room heat four or five rooms in the coldest weather.

Guaranteed to make a heating stove with an 18-inch fire bowl heat four 16-foot rooms. Write for descriptive circular and prices.

Manufactured and For Sale By
P. J. MOONEY, Patentee
BRAZIL, INDIANA
There must be a damper in the stove pipe.

A Good Warm Air Furnace

Properly installed, will heat a house more satisfactorily and more economically than hot water, steam or stoves.

The foregoing statement can be proven if you will sell BOOMER FURNACES, and get our ideas about installation.

No one has ever made any money out of light, cheap furnaces; 95% of the consumers will pay the price when value can be shown, after which, no trouble. Let your competitors have the other 5% and the trouble.

Be honest now, are you drifting into the 5% class, or are you going to handle BOOMERS? Get our attractive BOOMER proposition immediately.

The HESS-SNYDER COMPANY
Manufacturers .·. MASSILLON, OHIO

Dry Powdered and Oil Paste
STOVE POLISH
KEEPS IN ANY CLIMATE—FOR DEALERS' USE.

Black
Brilliant
Durable
Water Proof
Rust Proof

Readily Mixed

A-B

METAL POLISH IRON ENAMEL • BRILLIANT and LASTING

A-B POLISH CO., 8-14 Haddon Ave., CHICAGO, ILL.

Simplicity, Durability, Economy and Capacity

All of which are essentials of the really Good Furnace, are featured in the

MONCRIEF
TOP RETURN FLUE WARM AIR FURNACE

This is a furnace which is unsurpassed for operation and durability.

FEATURES: Burns all grades of hard and soft coal; all cast iron; Moncrief Duplex Grate; large radiating surface; double fire-pot; large grate surface and cleanliness in use. Write for catalogue.

Henry & Scheible Co., 825-29 Long Ave., N. W. CLEVELAND, OHIO

J. C. KIMMEL, 3314 E. 15th St., Kansas City, Mo., Western Sales Agent

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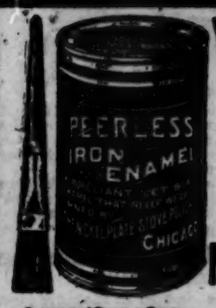

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Nickel Plate Stove Polish Co.,
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Large 10 oz. Can.

THE CHAMPION
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They Fit Any Furnace

So constructed that they may be placed directly at the top of the fire, in which position their large surfaces are subjected to the strongest fire, making them powerful heaters. Adapted for use with ALL KINDS of fuel. Will increase the heating capacity of any furnace and reduce the coal bills.

Manufactured only by
FRANK D. STOLZ
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THE AMERICAN ARTISAN Want Ads fill your wants.

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But Only One Quality—THE BEST

THAT IS WHY THE

FLORAL CITY FURNACES

have occupied the proud position of leaders in furnace construction for years.

For **durability, economy, power** and **satisfactory service,** this line is without an equal, and as long as quality is considered, it is sure to retain its place at the head.

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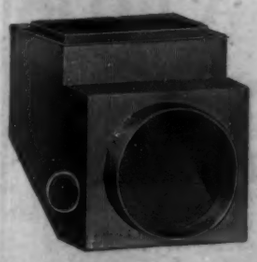

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We Make the Only Sectional Furnace Pipe in which the Inner Walls Form the Cross Walls.

No Wings to Pull Out. **No Cleats to Bend.**

Improved HANDY Furnace Pipe

THE PIPE WITH THE LAP THAT FITS EASY

Perfect Ventilation and Saving in Fuel Consumption Assured By Its Use.

One End

Is ¼ inch larger than the other. This means that HANDY pipe can be easily erected—in fact almost thrown together.

The Slip

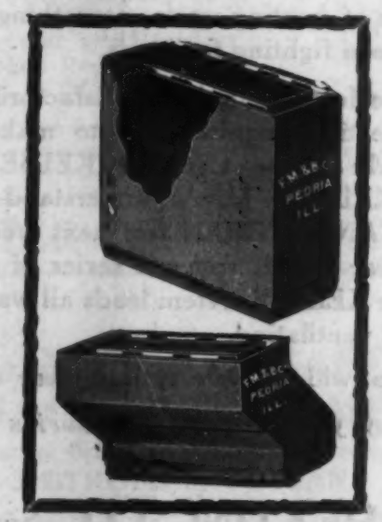
Is 1¾ inches long, the longest of any furnace pipe made.

The Joints

Fit perfectly and will not come apart.

The Tin

Used in its manufacture is the best procurable, both in weight and quality



Safety

Is assured by the fact that once fitted together HANDY pipe will under no circumstance come apart.

Service

Which is so much desired by the purchaser, is one of this pipes strong features. It will give the best of service as its use insures perfect ventilation with safety as well as a saving in fuel consumption.

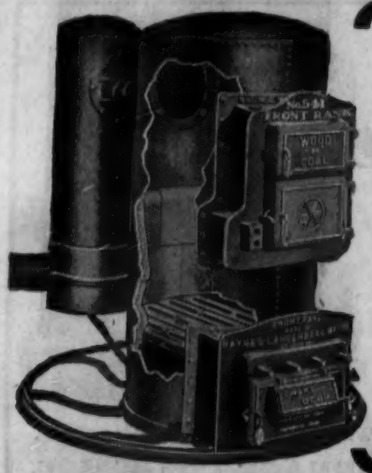
Samples

For your inspection will be sent upon request. Write for them.

The areas of all sizes have been enlarged, insuring a larger flow of heated air and better results.

SALES ARE EASY when selling points *ARE NUMEROUS* and HANDY Pipe HAS Many Selling Points. WRITE TODAY FOR OUR CATALOG.

F. MEYER & BRO. CO., Peoria, Illinois



A Furnace That's Different!

You know as well as we do that almost all furnaces are alike in construction—and that your competitor can quote just as low a price as you.

With this FRONT RANK Furnace you can go after a prospective customer with a line of argument that is entirely different.

The FRONT RANK is made of heavy sheet armor plate, riveted like a boiler. It can't bulge apart, and it can't leak gas.

There are no "cup joints" in which the cement can shrivel up and allow gas to escape.

The FRONT RANK Furnace offers a mighty fine opportunity to one good dealer in each town.

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4045-57 Forest Park Blvd., ST. LOUIS

SAVE HALF YOUR FUEL

BY USING THE

ROCHESTER RADIATOR

Satisfaction guaranteed, or money refunded Over 100,000 of them in use. Fits any stove or furnace.

We make the original and genuine Rochester Radiator.

We do not sell to Catalog Houses.

Price, from **$2.00** to **$12.00**

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We refer all inquiries to you from your town when you carry a stock of our Radiators.

We guarantee our Radiators not to interfere with or choke the draught. They are easily cleaned.

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The present Up-Lift movement in the heating business is particularly gratifying to Dealers who already have the KELSEY Exclusive Agency, because it points the way to a still better class of heating work—something for which the KELSEY has been fighting for years.

To make perfectly plain how satisfactorily the KELSEY meets every heating requirement—to make YOU understand as clearly as the army of KELSEY Agents and the 32,000 KELSEY Users understand—beginning in THE AMERICAN ARTISAN for next week, August 22, there will appear in this space a series of real, convincing reasons why the KELSEY system leads all warm air methods of heating and ventilating.

This series will be interesting, clear and convincing.

It will pay you to read the series carefully and thoughtfully!

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NEW YORK: 156 Fifth Ave. CHICAGO: Van Evera & Lewis Mfg. Co., 104-106 W. Lake St.

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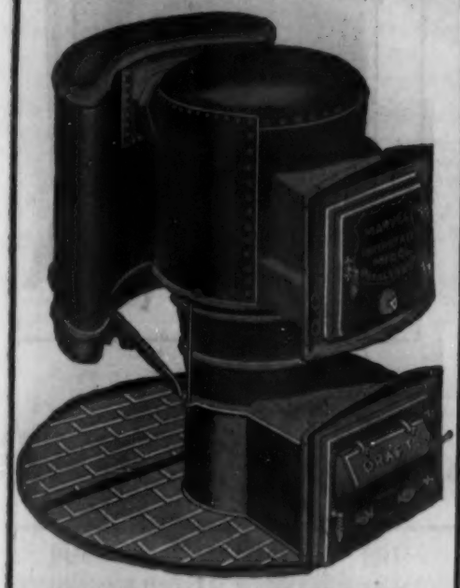

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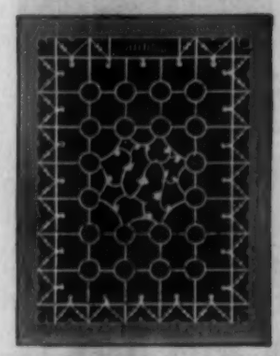

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Black Japan
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Why buy the semi-steel or modified Steel Register?. They are only imitations.
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We are not assemblers; we are makers. Our own foundry with capacity of 200 Molders. Not in the Association. Write for Catalog.

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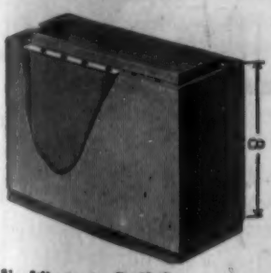

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Corner Brooklyn and Abbott Streets,
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The STIFFEST and BEST Machine-made Pipe on the Market.

The only Sectional Furnace Pipe made in which the Inner Walls Form the Cross Walls.

No Wings to Pull Out. Write For Catalog. No Cleats to Bend.

Our Large Factory Insures Prompt Delivery.

We are not Connected with any Combination. Do not get us Confused with Other Manufacturers.

Quick Comfort Gas Heating Stoves

New and Neat DESIGNS

Constructed Especially for the Economical Use of

NATURAL GAS

PERFECT in Operation Built so as to Secure the Proper Combustion of the Fuel and Produce the Required Amount of Heat

RINGEN STOVE CO.

DIV. OF AMERICAN STOVE CO.

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ESTABLISHED 1880.

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DANIEL STERN, PUBLISHER AND PROPRIETOR,
355 DEARBORN STREET, CHICAGO, ILL.

Entered as Second-Class Matter June 25, 1885, at the Post Office at Chicago, Illinois, under Act of March 3rd, 1879.

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CHICAGO, AUGUST 15, 1908.

FRENCH postal authorities have informed the Post-office Department at Washington relative to the parcels post convention with France, that the following regulations have gone into effect: A bill or invoice may be included in a parcel; confections and pastes are not prohibited; no limit of value is prescribed for the contents of a parcel; two copies of the customs declaration must accompany each parcel, each copy indicating the gross weight of the parcel and the net weight of its contents; only parcels addressed for delivery in continental France are mailable.

AFTER months of curtailed customs receipts the turn of the tide has been reached, according to treasury officials at Washington. They say the heavy import orders that are going abroad in all lines mean that customs receipts will soon begin to increase perceptibly. James L. Gerry, until recently chief of customs in the treasury, now of New York, says the customs outlook is good. "A marked improvement is at hand," said Mr. Gerry. "Heavy import orders are being sent abroad for goods of all kinds. The actual entries so far show little increase, but it will not be long before the effect of heavy buying in Europe will be seen in enlarged customs receipts."

THE present indications are that the pig iron production of the current month will be more than 1,300,000 tons, in which case it will exceed by nearly 100,000 tons the production of last March, heretofore the record month since November, 1907. The furnace capacity active on August 1 is estimated to have been in round numbers 245,000 tons per week, or 20,000 tons more than the average weekly capacity of the furnaces active during July. As the July production amounted to 1,217,897 tons, an increase of 20,000 tons a week would indicate 1,317,000 tons as the production of August. As a matter of fact, however, August being a long month, the total production would run to not less than 1,325,000 tons if the capacity active at the beginning of the month continued in full blast throughout the period. The 161 furnaces in blast August 1 represented 41 per cent of the capacity of the country, as compared with 38 per cent in blast at the beginning of July.

THE National Travelers' Association of America was organized at Milwaukee, Wis., on August 8. The new body passed a resolution favoring a parcels post. Another resolution was adopted condemning the rules of certain railroads in the South and West which charge four cents a mile unless there is an exchange of mileage for tickets at local stations. The objects of the association are to bring about a better acquaintance of persons engaged as commercial travelers; to secure equitable rates on all lines of transportation; to obtain equitable allowances of baggage, and to secure hotel accommodations commensurate with the prices paid. In addition to this it is the design to establish and maintain where necessary, hotel and transfer companies and bring about a better condition of affairs in transportation companies and in hotels.

EXPORTS of iron and steel from the United States in the fiscal year ended June 30, 1908, had a total value of $183,982,182, as compared with $181,530,871 in the preceding year and $160,984,985 in 1906. A decrease in the export business in June, when the value of the material sent out was $11,677,944, as compared with $17,266,259 in the corresponding month last year, brought the total down considerably from the figure estimated earlier. However, the exports in the fiscal year recently ended made a high record and the figures did not include the value of the ores shipped abroad. The total value of the machinery exported was $89,470,974, as compared with $90,055,000 in the preceding year, the decrease being due to the heavy falling off in the shipments in June. In 1900 the total value of the exports of iron and steel was $121,913,500, in 1890 it was $25,542,200, and in 1880 it was $14,716,500.

No Chance for Hard Times.

OPTIMISTIC talk somewhat unusual in the summer of a presidential year is now being heard all over the country. Captains of industry are confident that the period of depression is past and that good times are coming our way again. These predictions are verified by the resumption of work in practically every line of industry in all sections of the country. The pay roll in the city of Pittsburg a week or two ago, for instance, was one of the largest ever known in that city. Hundreds of big factories which a few months ago had practically suspended operations, are now running on full time and with orders enough ahead to keep them busy for an indefinite time.

The *New York Times* has been printing reports from credit men in different sections of the country, setting forth their opinions of the business done so far this year, and what they think of the outlook for the future. In almost every instance these men, whose business naturally makes them pursue a cautious pol-

icy, admit that business this year, while it falls short of that of last year, has been as good as that of 1906. One of these credit men, for instance, has the following to say about the situation in Baltimore:

"By canvass we found that the manufacturing and jobbing interests of Baltimore for the five months of 1908 did a business amounting to 90 per cent of what was covered by the same period of 1907, but they equaled the same period of 1906; 1907 was our best spring season. We also found with reference to business from the districts where fruit products are raised that it showed an increase over previous years. Our loss was heaviest in the industrial districts, but on the whole we had 90 per cent of 1907 business."

From this it may be deduced that while the country has not done the business expected of it by the progress of 1907, it has done a business far beyond what might be looked for after the depressing times of last fall.

The government crop report for July indicates that there will be another enormous yield of corn, and it is believed that the yield of 1907 will be surpassed. The collected figures show almost 101,000,000 acres devoted to corn. This acreage exceeds by more than 4,000,000 that of 1906. In that year, when the yield was finally counted, it was found to be 2,927,416,000 bushels. The crop for 1908 is estimated as likely to come within 200,000,000 bushels of the record of 1906. While the ideal conditions of that season have not been realized this year, the situation is so favorable everywhere that the farmers are happy over the outlook. The crops are the great factors in national prosperity, for bounteous harvests have frequently come to the relief of the country at times of commercial depression.

The first accurate and comprehensive report on the agricultural situation is supplied through Lord & Thomas, who have just had an exhaustive outline of crop conditions from practically every publisher of farm papers in the United States, for the benefit of manufacturers who look for reliable information on the country's condition in advance of the actual measuring of crops after harvest is fully completed. Reports from many states are genuine eye-openers, showing prosperity—in fact, unusually abundant wealth—where the average individual would hardly have expected it, and the total crop showing is so decidedly favorable that, while only a few of the earlier products have been harvested, one would have to be decidedly pessimistic to see anything but the most encouraging conditions in every locality. It would be nothing short of ridiculous to suppose that there could be any permanent absence of prosperity in the United States when such conditions exist as these that have been enumerated.

No more optimistic view of the situation could be taken than that expressed by The Humphryes Manufacturing Co. of Mansfield, O., in the following letter that they have sent broadcast throughout the country:

"The financial skies are clearing, business is improving, and good fortune seems to again be smiling upon our fair land. Once more, we, as a people, have cause to return thanks for abundant harvests, nature's most bounteous blessing. Prosperity cannot be long delayed or denied to our country, for we are a nation of doers who, with implicit faith in the future greatness of our country and its resources, courageously face the future and anticipate its possibilities.

"We believe an effort on the part of every one to inculcate the value of present opportunity will stimulate such a revival in building operations as will effectually rehabilitate trade conditions.

"We believe our theory is correct and, having faith that it is, ask you to kindly remember that we will be glad to furnish you the enameled ware which you will surely require and which you will undoubtedly be in the market for at an early date.

"Do not lose sight of the fact that improved business conditions are now with us."

The Humphryes Manufacturing Co. is only one of hundreds of industrial concerns who are optimistic concerning the situation. Business is picking up all around, and with good crops this year prosperity in abundant measure is assured.

Denatured Alcohol.

THAT the production of denatured alcohol in the United States is slowly but steadily increasing, is seen from the report of the Commissioner of Internal Revenue, which shows that in the month of June, 1908, there were produced 305,527.21 gallons, a gain of over 85,000 gallons compared with June, 1907. The following table shows the production of denatured alcohol in wine gallons, since January, 1907:

	Completely denatured.	Specially denatured.
1907.		
January	517,900.98	55,548.38
February	249,394.29	53,344.70
March	185,607.33	68,586.95
April	198,658.78	71,625.96
May	114,711.93	57,863.28
June	138,856.71	80,965.02
Total	1,405,130.02	387,934.29
July	105,848.49	48,649.54
August	165,483.48	96,209.26
September	165,469.86	135,391.03
October	148,210.67	170,540.95
November	167,276.91	154,684.87
December	99,164.14	104,091.55
Total	851,453.55	709,567.20
1908.		
January	145,421.61	93,011.90
February	160,194.47	131,758.66
March	154,138.03	138,269.59
April	176,348.49	133,744.89
May	167,277.50	154,253.17
June	158,336.56	147,190.75
Total	961,716.66	798,228.96

Former Commissioner of Internal Revenue John G. Capers and Dr. C. A. Crampton, chief chemist of the Bureau of Internal Revenue, who have been appointed by the government to supervise the experiments that are being conducted concerning the uses of denatured alcohol, are now in Europe, and are making extensive investigations of the denatured alcohol distilleries of Germany, France and other European countries. It is their intention to investigate the European methods which have been the means of making denatured alcohol a very useful and almost indispensable commodity. In certain European countries denatured alcohol is exempt from government taxation, and this fact has been regarded as an important one in making denatured alcohol a staple product on the other side of the water. Although the United States Government has not been collecting a tax on denatured alcohol for the past year or so, this commodity has not been making the progress in the United States that it has abroad. A typical denatured alcohol distillery is now being constructed in this country, the government having voted $20,000 towards its erection.

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

As might have been anticipated, the intense and practically continuous heat of the past few weeks, the drought and the dust, have combined to unsettle somewhat the minds of people everywhere throughout the country. The fish-story fiend has probably suffered more than others of the genus *Homo,* for to all intents and purposes he is fit to send to the lunatic asylum. Indications of this fact have been numerous of late, and the situation is far from encouraging, when viewed from the standpoint of truth and soberness.

A story reaches me from Worthing, S. D., that the fish in that section of the country have acquired quite a taste for veal. During the recent high water large pike and carp made their way up a drainage canal in Grant township, with the result, it is said, that Henry Hanson, a farmer, lost a young calf, carried off by a gigantic pike. Melvin E. Sundvold tells the story as reported by Hanson. The farmer heard a noise among his cattle one night, and rushed out toward the trouble, which he found was near the canal. He found several calves standing belly deep in water, and noticed one little calf making a desperate effort to put its tail free from something. The farmer, with his bare legs, was afraid of barbed wire, but he waded cautiously toward the calf, and, just as he caught it, a monster pike lashed the water all over him, and for a moment he was blinded. Wiping the water from his eyes, he found the calf was being dragged toward deep water. Hanson made a desperate effort to reach the animal before it was dragged into the canal, but he failed, and the calf struggled until it finally drowned.

Still another story reaches me that at the home of George Foster, nine miles south of Council Bluffs, Iowa, two litters of pigs and a number of ducklings have been eaten by fish. This story is told by Ben Marks, who has lost property worth $10,000 in recent floods. "Buffalo, carp and some other species of fish with which I am not acquainted, but which are of very large size, have been brought into our hog lots and feeding places by the high water," Mr. Marks says. "The moment the pigs or ducklings wade into the water they are seized and never reappear. The number of them eaten by fish is astonishing." Of course there is no question about Mr. Marks' mind having become unbalanced. I would not blame the heat and drought entirely, however, for his $10,000 loss probably helped some.

Down near Lake Village, Ark., the weather has been so hot that on August 2, it is reported, thousands of perch, lake trout, yellow and shovel billed catfish, pike, and bass climbed out on to the banks of Grand lake and were beaten to death by the natives. It is said that the fish took to dry land to escape the heat of the lake, which suddenly rose to a high temperature from an unknown cause.

It is impossible to overlook, or to attempt to minimize the startling news that comes to me from Kalamazoo, Mich. That interesting city, as is generally known, is situated near the placid little body of water known as Long lake. The men, women, and children of Kalamazoo have bathed in this little body of water every summer for years without discovering that it contained anything save minnows, perch, sunfish, eels, an occasional bass, and the usual mud turtles. Nothing unusual has ever been seen in and nothing unusual has ever occurred at Long lake, in short, until the heat and its attendant consequences began to make themselves manifest. Then people began to return from Long lake with strange stories—stories not alarming at first, but calculated to create the impression in the public mind of Kalamazoo that mysterious things were happening out that way. Some told of seeing pike weighing anywhere from forty to fifty pounds jumping out of the water. Then there was talk of muskellunge weighing eighty to a hundred pounds that had almost upset pleasure boats by swishing their tails. Then a man came into Kalamazoo one evening with a story to the effect that he had seen a mermaid in Long lake. Still later, a party of young people reported that while bathing they had been attacked by a school of porpoises. And, finally, we have the story which goes to show that people in small inland western towns cannot be too careful in hot weather. This is to the effect that William Delevan, a respectable and truthful fisherman, and four women of Kalamazoo, while boating on Long lake not long ago were horrified by the appearance of a monster about sixty feet in length with the head of an alligator, the back of a turtle, and a dark red skin. The statements made by each of the five persons who saw this serpent tally almost exactly except that they are not entirely agreed as to two points—the assertion of fisherman Delevan, that the creature's eyes shone like the electric lamps of an auto and the assertion of one of the women that it tooted when rounding the boat and gave off an odor like that of a gasoline engine. The most alarming thing connected with this latest intelligence from Long lake is that the story is not questioned by the people of Kalamazoo. It is to be hoped for Kalamazoo's sake, that the wind may change and that rain may fall over there before long.

* * *

Here are a few "Brands of Tea" which an exchange suggests might be good for what ails us:

The soul of wit? Brevity.
The best policy? Honesty.
Never faileth? Charity.
Possession of Gossip? Curiosity.
The power of the age? Electricity.
A pretty girl's temptation? Vanity.
A criminal dread? Captivity.
The four hundred? Society.
One treasured possession? Liberty.
Everlasting? Eternity.
The mother of invention? Necessity.
What the day brings? Duty.
The spice of life? Variety.
Pleasing to the eye? Beauty.
Quick at repartee? Witty.
Safe from harm? Security.
Great speed? Velocity.
Three in one? Trinity.
Results of accident? Fatality.
Sober reflection? Gravity.

* * *

Eph Green—Ah desires to purchase ah razzer.
Clerk—Safety?
Eph Green—No, sah; dis am fo' social usage.

News Siftings

The Central Association of Stove Manufacturers will hold a meeting at Columbus, O., on September 15.

Mr. James Graves, of the Chicago Stove Works, in his speedy little power boat won the Kingsley cup in a race held on August 1 at Pistakee Bay, Wis., under the auspices of the Pistakee Bay Yacht Club. The race was a closely contested one from start to finish. Mr. Graves is very proud of his trophy.

The Mississippi Valley Stove Works at Fulton, Ill., which was closed down for several weeks, has resumed operations again, the molding department being especially busy at this time.

The Cole Mfg. Co., Chicago, Ill., manufacturers of Cole's hot blast coal heaters, etc., have recently purchased about 3½ acres of vacant property adjoining their present plant at 3218-3238 S. Western avenue, to take care of their steadily increasing business. They are considering plans for the construction of an up-to-date steel concrete building to cover the property purchased by them.

The S. Obermayer Co., Cincinnati, Chicago, and Pittsburg, have opened up a branch warehouse at Erie, Pa., which is in charge of Mr. W. L. Scott, well known in foundry circles in that section of the country. A complete line of foundry facings, plumbago, blackings, etc., will be carried in stock at the Erie branch, it being probably that the full line of foundry supplies of the S. Obermayer Co. will be carried in the course of time.

The Monitor Stove and Range Co. of Cincinnati, Ohio, are sending out a very attractive hanger card on which are enumerated some of the good points of the well-known Monitor radiator base-burner. The three features of the Monitor radiator to which the company calls special attention are, that the front part of the stove is always the hottest, that the heat is radiated into the center of the room direct, and that the fire passes down the five front flues, then under the stove and up the back flue of the chimney.

CATALOGUE OF THE ROSTAND MFG. CO.

The Rostand Mfg. Co. of Milford, Conn., have recently issued a highly artistic catalogue illustrating and describing their brass fireplace fixtures and candlesticks. The catalogue measures 8 by 10 inches and contains 48 pages, the illustrations being of an exceptionally high order. Thirty pages of the catalogue are devoted to the Rostand Mfg. Co.'s line of brass andirons which are made in numerous sizes and styles. Considerable space is given up to iron andirons, various designs of brass fenders, brass firesets, cast brass jamb hooks and cast brass door knockers, all of which the company guarantees to be just as represented in their advertising literature. The merits of Yale metal polish are set forth in this catalogue. The Rostand Mfg. Co. says that it is a quick action polish, giving a brilliant and lasting luster to all metal surfaces. It is said to contain no acids or other injurious matter. The patterns of the fireplace fixtures and candlesticks listed in the catalogue represent many new designs as well as many of the old Colonial lines which the Rostand Mfg. Co. has reproduced. When writing for this catalogue kindly mention THE AMERICAN ARTISAN.

RANGE PEDDLER PUT TO ROUT.

Maypearl, Tex., is a good place for peddlers of ranges to keep away from, at least so long as Jones & Davis continue in business in that town. A few weeks ago a peddler invaded Maypearl and started out to do a regular land office business, having sold, it is said, ten ranges before the vigilant Jones & Davis were aware that he was working in the town. When, however, the discovery was made by J. & D. they at once started to make things warm for him. They inserted a snappy advertisement in their town paper and sent out to their customers the following letter, which, together, proved to be successful in routing the peddler from the vicinity, only one sale, it is said, having been made by him after Jones & Davis got busy. Following is the letter:

"Since sending out our last circular letter on stoves and ranges, we have been informed there is a party going through the country selling ranges at $79.00 each, which, he claims, will last 20 years, and we have also been informed that this party is representing our ranges to be third-class goods, and that lots of them have burned out with two years' usage.

"Now, we have only been in business for four years, and we have inquired about the steel ranges we sold in 1905, and find that they are all intact, and, apparently, as good as new. Let us suppose, for the sake of argument, that he is correct in stating that our goods are inferior, and that his are first-class:

"The highest priced stove we sold in 1905 was $50.00, which was $29.00 less than this so-called "first-class" range; and, allowing that money is worth 10 per cent, that $29.00 at compound interest is now $38.59; and if his stove should only last one year more, he will have $42.44 to put out on a new stove.

"Nearly all of our customers have assured us that their stoves are good for 10 years at least, and if they are, the $29.00 saved in 1905 will be $75.15 by that time, or nearly enough to buy one of these "first class" ranges.

"We challenge anyone to show us a range or stove costing over $20.00, sold by us since we have been in Maypearl, that has burned out. The interest on $79.00 will buy a $20.00 stove every three years, a $25.00 stove every four years, a $35.00 stove every five years and a $50.00 range every six years. If you don't believe this, give us $79.00, and we will guarantee to keep you in stoves the balance of your lifetime.

Yours truly, JONES & DAVIS.

Maypearl, Texas.

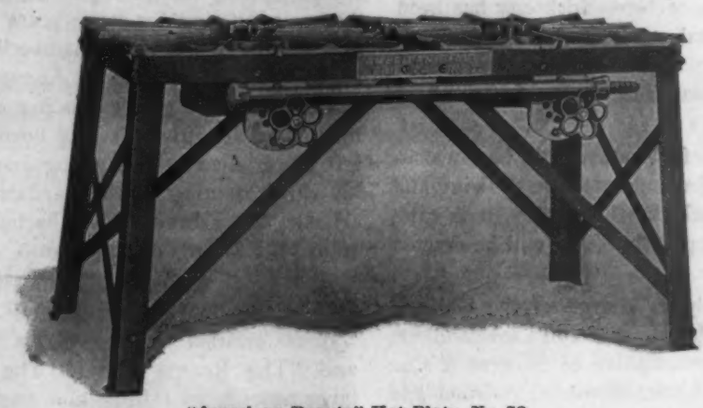
CATALOGUE OF THE STOVE AND RANGE CO. OF PITTSBURGH.

The Stove and Range Co. of Pittsburgh, Pittsburgh, Pa., are sending out their 1908-1909 catalogue of their well-known line of "Good Luck" stoves and ranges. The book is known as catalogue No. 24 and is an excellent specimen of the printer's art. It measures 6 by 9 inches and contains 96 pages replete with well-printed illustrations. The "Josephine Good Luck" range for hard or soft coal or wood, is said to be a range of unquestioned superiority. It is beautiful in design, elaborate in ornamentation and is constructed on modern lines. The body is made of heavy plan-

ished steel of a refined quality. All parts that are exposed to the direct action of the fire are of double thickness, with an asbestos mill board between, all securely riveted together in a workmanlike manner. The ovens of this range are made of 14-gauge wrought steel, and are extra large and high. Over the top oven plate is placed a removable cast-iron plate, affording full protection from the action of the fire. The bottom oven plate is supplied with cast-iron braces, to prevent warping. The fire-box is of good capacity, the fixtures being interchangeable for all sizes. The "Gertrude Good Luck" range is constructed on the same substantial principles as the "Josephine." The outside construction is of annealed and patent leveled blued steel, 18 gauge, the inside being of full cold rolled, patent leveled and annealed range steel, 14 gauge. A wood extension is provided with this range as with many others manufactured by the Stove and Range Co. of Pittsburgh, the use of which permits the burning of 24-inch wood in all sizes. Other varieties of "Good Luck" stoves and ranges described in the catalogue, include the "Margaret," "Florence," "Edna," "Favorite," "Rosalind," "Elizabeth B and C," "Mildred," "Leader," "Lincoln," and "Juliet." "Good Luck" base burners are also given considerable attention in the catalogue. These stoves, the makers say, possess in their construction every desirable improvement known. The Company's well-known line of Etna furnaces, for hard and soft coal, are also fully described. The grate used in the Etna furnace, the makers say, is the most improved style of the Triplex grate, and consists of four bars triangular in shape, set in a frame which rests on slides, cast on the sides of the ash-pit, making it easy to remove the grate through the ash-pit door. The Stove and Range Co. of Pittsburgh will be pleased to send their catalogue to those interested in their products. When writing for it kindly mention THE AMERICAN ARTISAN.

A HOT PLATE SPECIALTY.

The American Beauty Stove Co., Erie, Pa., has just issued a supplement to catalogue No. 15, showing a new line of hot plates. The accompanying illustration shows the "American Beauty" hot plate No. 72, which is said to be strong enough to support a weight of 500 pounds. The No. 72 is twelve inches high and is large enough to accommodate a wash-boiler. With the use of this type of hot plate there is said to be no danger of the floor catching fire. All the top bands, legs, braces, mixers, burner hangers, burner straps and name plates of the new "American Beauty" series are of the best quality of cold rolled steel, the grates and burners being of a high grade of gray iron castings. The supply pipes are made of steel, with malleable iron fittings and brass needle valves. The top bands are coated with a tough, glossy black japan, and the angle lids and braces of the 12-inch and 28-inch series have the same finish. This contrasts well with the highly polished and heavy nickel-plated parts. The burners are all made in one piece, and there is said to be no chance for warping, with consequent leakage, waste and odor. They are furnished either slotted or drilled for natural or artificial gas. The numbers 72 and 73, which are 12 inches high, are said to be in great demand for household laundry purposes, the numbers 82 and 83, 28 inches high, having become popular for summer cooking and light housekeeping purposes. The American Beauty Stove Co., which manufactures a complete line of gas ranges and heaters, will forward their catalogue to those interested in their products. When writing them kindly mention THE AMERICAN ARTISAN.



"American Beauty" Hot Plate, No. 72.

OBITUARY.

Charles H. Blanchard.

Charles Howard Blanchard, formerly of Cincinnati, O., died on August 8 at his home in Webster Groves, St. Louis, at the age of 67 years. Mr. Blanchard was born in Baltimore and was a Civil war veteran. In 1864 he settled down in Cincinnati, O., and became connected with the John Van Range Co. of that city. He was later appointed manager of the John Van Range Co.'s branch office in St. Louis, having lived in that city since the year 1901. Mr. Blanchard was well known to the stove and range trade, and his genial disposition won him many friends who will regret to hear of his demise.

Fred W. Sack.

Fred W. Sack, vice-president of the Bassett-Presley Co., of Cleveland, O., jobbers of iron and steel, died on August 10 at the age of 36 years. Mr. Sack had been in poor health for several months, and his death was not unexpected. His connection with the Bassett-Presley Co. extended over a period of nearly twenty years.

The Hardware Record.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 40 to 45 inclusive.

At the invitaton of the mayor of Rochester, N. Y., the New York State Retail Hardware Dealers' Assocation will hold its convention in that city on March 1-5, 1909.

A new company is being organized to manufacture a nut lock which has been invented by C. S. Norris of Troy, Ohio. Fred J. Green of Springfield, Ohio, is a member of the company.

The Latest Inventions Co. of New York city has been capitalized at $50,000 to manufacture self-heating soldering irons, etc. The incorporators are Frank J. Mann, A. Di Toro and T. Zanehelli.

The Randall Razor Co. of New York city has been incorporated with a capital stock of $3,000 to manufacture safety razors, etc. The incorporators are C. P. Bowman, A. J. Bowman and T. P. Masby, all of New York.

The Ward Fence Co. of Decatur, Ind., has in contemplation the erection of a complete wire drawing and wire galvanizing plant, which will employ, it is said, more than one hundred operatives. It will be erected early in 1909.

R. S. Hickey, formerly in charge of the Chicago office of the Columbian Hardware Co. of Cleveland, O., is now the traveling representative of Sargent & Co., in Colorado, Wyoming, Utah, Montana, Arizona and New Mexico.

The first annual outing and picnic given by the Retail Hardware Dealers of Dayton, Ohio, was held on August 5. Frank Hamburger, C. L. Kimmel and William Hadler were in charge of the arrangements, the event proving to be a very enjoyable one.

The International Lock Nut and Bolt Co. of Paterson, N. J., has been incorporated with a capital stock of $1,000,000 to manufacture lock nuts and bolts. The incorporators are Max Rosenstein, Sigmund Rosenstein and Harry S. Munzer, all of Paterson.

The Diuguid-Noel Hardware Co. of Lynchburg, Va., has been incorporated with a capital stock of $10,000. The officers of the company are: President and treasurer, Meem Diuguid; vice-president and general manager, E. M. Noel; secretary, K. D. Urquhart.

The Calmon Asbestos and Rubber Works of America, of New York City, has been organized with a capital stock of $25,000 to manufacture asbestos and rubber goods. The incorporators are Edward K. Garcin, Rudolf Gaertner and Rudolf Gruber, all of New York.

James C. Gray, a prominent hardware merchant and one of the leading citizens of Oroville, Cal., died on August 2 after a short illness. Mr. Gray was born in Maine in the year 1832, and in 1855 settled down in Oroville, where he built up a hardware business which a few years ago was incorporated as the Ophir Hardware Co. The deceased was noted for the many charitable acts which he performed and for his interest in the civic affairs of the town in which he lived. He is survived by a wife and two sons.

Moore Bros. Lightning Rod Co. of Graham, Mo., have under construction a large three-story factory building in Maryville, Mo., which they hope to have ready for occupancy by October 1. They will move their factory there as soon as the building is completed, and will have one of the best equipped lightning rod factories in the middle West, it is said.

A Kansas carpenter has invented a device that automatically blows away the sawdust from a board while being sawed. It is designed to be attached to the saw, close to the handle. When the saw has finished the down stroke, the end of the blower, which is in the form of a piston, comes into contact with the board that is being sawed. Air is generated, which blows away the sawdust from the guide line.

William Dwight Edwards, for twenty-nine years connected with the Fletcher Hardware Co. of Detroit, Mich., many years of which he was vice-president of the company, and for seven years secretary and treasurer of the Edwards & Chamberlin Hardware Co. of Kalamazoo, Mich., died on August 7 at the age of 51 years, after an illness extending over a period of six months. Mr. Edwards was born in Kalamazoo, but left there when quite a young man for Detroit, where his early training in the hardware business was received. Mr. Edwards was a bachelor, his mother, Mrs. John M. Edwards of Kalamazoo, surviving him.

E. A. Foy & Co. of Cincinnati, O., manufacturers of lightning rods, are sending out two interesting little booklets entitled "Lightning, Its Causes and Effects." and "The Reason Why." The former contains a large amount of information regarding lightning, together with statistics of the amount of damage done by it and the opinions of the most eminent scientists of the time on the subject of lightning protection. Several illustrations appear in this booklet, one of which shows twenty-eight head of cattle electrocuted by a bolt of lightning which traveled a barb wire fence against which the cattle drifted during a storm. The booklet entitled "The Reason Why" cites numerous reasons why lightning rods should be placed on all structures, and it contains a lot of information on the subject of lightning.

THE SHERWIN-WILLIAMS COMPANY.

For more than forty years the Sherwin-Williams Company of Cleveland, Ohio, have been engaged in the manufacture of paints and varnishes. They have grown from small beginnings to a mammoth concern with offices and warehouses located in fifteen of the principal cities of North America, scattered from the Atlantic to the Pacific and from Winnipeg to the Gulf. Their line of products includes everything in the paint, color, stains and varnish line, artist's tube colors excepted. They manufacture paints, enamels, colors, stains, and varnishes for all parts of buildings inside and outside and for all household uses, for railway use, for street railway use, and for marine use, for structural steel and for other metal surfaces, for carriages, automobiles, wagons and implements, and for all other manufacturing purposes. They make all

their own tin cans, operate their own box factory, have their own printing plant and machine shops, and own a screw steamship for carrying lumber and flaxseed down the Great Lakes.

As far as possible the Sherwin-Williams Company control the quality of the raw materials they use, to make sure their goods are right from the foundation up. They make, treat and refine their own linseed oil in their own mills and operate large zinc and lead mines and smelters. Their dry color factories in Chicago and London supply them with dry stocks and they operate five large plants in Cleveland, Chicago, Montreal, Newark and London, England, equipped with the most modern facilities for the manufacture of high quality goods.

An interesting folder tells the story of the company's growth, by means of photographs of the various warehouses, plants and offices now in existence, contrasted with a view of the little building where the company started manufacturing in 1866. Copies of this folder or of the company's clever help to agents entitled "The S-W-P" will be sent to any dealer on request. Address the Sherwin-Williams Company, Cleveland, Ohio, and when writing kindly mention THE AMERICAN ARTISAN.

"MERRY WIDOW HAT" WINDOW DISPLAY.

Charles Young, a clerk employed by Jacob Ernwine & Son, hardware and cutlery dealers, 542 W. Market St., Louisville, Ky., recently made use of the "Merry Widow Hat" idea in getting up a window display in

"Merry Widow Hat"

the form of this famous style of feminine headgear. Mr. Young says that it attracted a great deal of attention by reason of the originality of the design. The accompanying cut illustrates the "hat" which was made in the following manner: A fifty-foot section of lawn hose was coiled to represent the rim. On top of this an 18-inch sieve was placed to represent the crown. Two dusters were used for plumes while two ice-picks were pressed into service to typify the hat-pins. In addition to this ice-picks were used as ornaments, to add to the attractiveness of Mr. Young's conception. The articles used in the construction of the hat are representative, to a certain degree, of the line of goods carried by Jacob Ernwine & Son. It can readily be believed that such an idea as this was the means of arousing the curiosity of passers-by, especially those of the female sex. While it is probable that Jacob Ernwine & Son secured some new trade as a result of this unique display, it is not to be supposed that the millinery stores of Louisville reaped very much benefit from it.

CATALOGUES FOR COUNTRY HARDWARE RETAILERS.

THE AMERICAN ARTISAN has of late been receiving a number of inquiries concerning the advisability of retail hardware dealers in country towns issuing catalogues, it having been suggested that under certain conditions the issuing of catalogues by country dealers might be a paying proposition. The subject is one that has created not a little interest among the trade in all sections of the country, and with a view of obtaining definite information as to what extent and with what success catalogues are being issued by country merchants, THE AMERICAN ARTISAN invites its readers to send in their views upon this important subject, so that publication may be given them. Any dealer who may have a copy of his catalogue to spare, would confer a favor upon THE AMERICAN ARTISAN by forwarding it, together with any information upon the subject that might prove of interest to the trade. Names and addresses will be withheld if so desired.

To THE AMERICAN ARTISAN:

Regarding the issuing of catalogues by country merchants, I might say that we have issued catalogues with gratifying results. The first issue involved a great deal of time, trouble and expense, which I do not think we or any other country dealer would be justified in shouldering for his own individual interest.

Our plans are to furnish the catalogues to other merchants at a cost of $50 per thousand, or $30 for five hundred. The forms are kept standing, the cover being a separate form so that any merchant desiring a number of copies can have his name printed thereon where ours appears. We have handed out about 500 so far and are well pleased with the plan. Our solicitor obtains personal interviews usually with farmers to whom the catalogues are distributed, and spends about five minutes with each one he visits. We also keep the name and address of each one solicited.

We are well pleased with the plan. To do this, however, alone and individually for our own interest and benefit, would be out of the question. We think our plan solves the retail merchant's problem as far as catalogues to consumer are concerned.

I might add that since we began this plan of advertising which was about three months ago, we have sold, four times as many sewing machines in the last three months as we had sold in about the two years previous. Of course you will realize that it could only be done by making the price to meet competition.

Yours truly,

C. E. PIPP.

Otsego, Mich.

To THE AMERICAN ARTISAN:

The proposition of issuing catalogues strikes us something like this: It does not seem to be practicable for the ordinary country hardware dealer to issue a catalogue. First, because of the expense, and second, because of the impossibility of keeping it up-to-

date. If all hardware stocks of that description were the same, it would be a simple matter, because any publishing house could get out a catalogue at a reasonable price and furnish them all.

Truly yours,

A. W. Bosworth,
Bosworth Store Co

Island Point, Vt.

To The American Artisan:

For several years we have been studying how best to get out a catalogue so as to successfully compete with the catalogue houses. This spring we got out a catalogue that I think has increased our business about twenty-five per cent. We will be pleased to send a copy to any hardware dealer who is interested in an undertaking of this kind. We have had all the pages electrotyped so that we can use them at any time without going to the expense of having them all set up, when wanted for use again.

Yours very truly,

J. M. Thompson,
J. M. Thompson & Sons Hardware Co.

Owatonna, Minn.

To The American Artisan:

In regard to the issuing of catalogues by country retailers, my idea would be, in order to get very much benefit, to get up a very attractive catalogue with the best net prices for cash in advance, and let the customers wait for the goods as if they were sending away for them. The price should be made as low as those of any mail-order house, or lower. It would be the price, I think, that would attract their attention. To carry out the regular long-time prices, however, would naturally do little good, as it would be a difficult matter to have only one price to all selling on different terms.

Yours truly,

Jeffersonville, Vt. S. E. Pope.

To The American Artisan:

The subject of retailers issuing catalogues has long been an interesting one, one to which too little attention has been paid. The average dealer lets his customer get a catalogue from a distant city and send away after goods he has in stock, at prices that can be easily met, simply because he did not do the same thing the other fellow did and get out a catalogue.

For several years it has been our custom to get out a catalogue of seasonable goods, one in the spring and one in the fall. We feel our business has been largely increased this way, and we venture the assertion that no dealer ever started the custom and gave it up. It has been our custom to ask for catalogues mentioned in trade papers and as a consequence we have a collection we value very highly, affording us many valuable ideas. We regret that we have failed as yet to secure one issued by a Southern dealer.

It is my intention to have this subject taken up and urged upon our members at our next meeting.

Yours truly,

L. D. Love,
President Tennessee Retail Hardware Association.

Nashville, Tenn.

MICHIGAN RETAIL HARDWARE ASSOCIATION

The fourteenth annual convention of the Michigan Retail Hardware Association was held at the Hotel Cadillac, Detroit, Mich., on August 12, 13 and 14, and was very largely attended. The convention opened at 1:30 o'clock on the afternoon of Wednesday, August 12, with an address of welcome by Mayor Thompson of Detroit, president C. M. Alden of Grand Rapids responding on behalf of the association. The reports of secretary Arthur J. Scott of Marine City, Mich., and of treasurer William Moore of Detroit showed the association to be in a flourishing condition. The papers read and the addresses delivered at the convention were of an exceptionally high order. Mr. H. J. Fueller of the Abram Cox Stove Co. of Philadelphia spoke on "Specialization in the Hardware Business," which proved to be one of the most interesting and instructive numbers on the program. Marshall H. Mackey of South Haven, Mich., chose "Advertising" as his subject, his talk being very much enjoyed. The following papers were presented: "Getting a Profit," by George W. Hubbard of Flint, Mich.; "Freight Overcharges," by H. H. Renshaw of Detroit; "The Association as Viewed by the Salesman," by Henry A. Pickert.

The lobby entrance and stairway of the Hotel Cadillac were decorated with display cards and signs, extolling the superiority of the numerous articles of hardware that were on exhibition on the parlor floor of the hotel, the scene having the appearance of a hardware exposition.

Elaborate arrangements were made for the entertainment of the visitors during their stay in Detroit. On Wednesday evening they attended an illustrated stereopticon lecture delivered by George H. Maxwell of Chicago, at the Detroit Opera House. Mr. Maxwell spoke on "The Future of the Nation" and "The Campaign for the Country Town." He portrayed the marvelous development of the middle west from the early days down to the present time. On the evening of Thursday, August 13, the delegates were the guests of the wholesalers and manufacturers of Detroit, taking a trip through Riverview Park, Detroit's little Coney Island.

On Friday evening a boat ride on the Detroit river was taken. The convention was voted the most successful ever held in the history of the association.

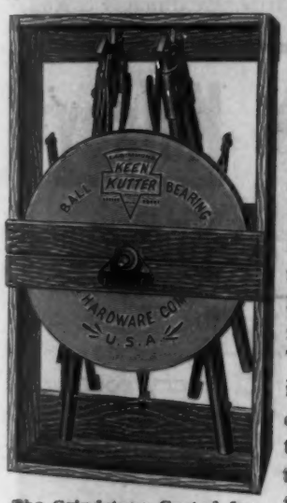
MAHER & SON LIGHTNING ROD COMPANY

Maher & Son Lightning Rod Company, Preston, Ia., say that they have as good copper cable lightning rods and fixtures as are now on the market. In manufacturing their 32-strand copper wire cable lightning rod they use, they say, only the best Lake Superior copper. The several strands are effectually wound so as to maintain the greatest conductive power. This cable is put up in 1,000 and 500-foot spools, covered with burlap. The company's copper bayonet point is made of Lake Superior copper, the same grade as that of which their famous cable is made, and is polished and lacquered. Their T burr connection is also made

of Lake Superior copper, to fit the tube tight and firm. The company says that they do not use a small piece of sheet copper that goes around the cable and just sticks into the tube. Maher & Son Lightning Rod Company manufacture a handsome line of ornaments. Their white scroll arrow is made in a white metal finish. The revolving socket is made of brass and it is said to balance perfectly. The company's braces are made of three-quarter-inch soft steel twisted together and are galvanized after being made. Their 4½-inch glass balls are in colors of blue, opal, white, gold and silver. The coloring is on the inner surface of the glass, where air and moisture are excluded. Good literature upon application. When writing kindly mention THE AMERICAN ARTISAN.

KEEN KUTTER MOUNTED GRINDSTONE.

A new Keen Kutter mounted grindstone is being put on the market by the Simmons Hardware Co. of St. Louis. The stone is made of carefully selected Berea grit and it is mounted securely on an extra braced and bolted tubular frame. A mounted grindstone is frequently given to vacillating by reason of the insecure mounting, but the new Keen Kutter stone, the Simmons Hardware Co. says, is absolutely firm. The utmost care, it is said, is shown in the details of this grindstone. All the rods and bolts are threaded and accurately fitted. It is provided with steel ball-bearings, so that a child can run it, and it presents quite an attractive appearance, being painted black and red. The Simmons Hardware Co. will be pleased to give further information about the new Keen Kutter grindstone, and to quote prices. When writing them kindly mention THE AMERICAN ARTISAN.



The Grindstone Crated for Shipment.

Keen Cutter Grindstone Complete.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Shawnee, Okla.—The Warren Smith Hardware Co. has been incorporated with a capital stock of $25,000.

Hawkeye, Ia.—J. T. Riley will open up a hardware store in this place.

Harlowton, Mont.—Oliver Stephens will open up a hardware store here in September.

Brooksville, Tenn.—The City Hardware Co. has been capitalized at $7,500.

Linn Grove, Ia.—Charles Brosted will open up a hardware store.

Salisbury, N. C.—The Arey Hardware Co. has been incorporated for $50,000.

Elkton, Ky.—The Todd County Hardware Co. has been organized with a capital stock of $8,000.

Childress, Tex.—The R. H. Norris Hardware Co. has been capitalized for $50,000.

Utica, N. Y.—W. W. Chamberlain Co. will open up a hardware store.

Seibert, Colo.—E. T. Woods has opened up a hardware store.

Kansas City, Mo.—J. C. Laughlin has engaged in the hardware business.

Malone, Wis.—Sam G. Wehner has opened up a hardware store and tinshop.

BUSINESS CHANGES.

Elizabeth, Ill.—White & Steele have succeeded to the hardware business of Thomas White.

North Yakima, Wash.—The Valley Hardware Co. has purchased the hardware business of Cowing & Sprague.

Oswego, Ill.—Charles Shultz has purchased the hardware store here.

Hatton, Wash.—W. R. Birdwell is now owner of the Hatton Hardware store.

Sheffield, Iowa.—Kenmeir & Eggman have purchased the hardware stock of Nolte Brothers of Chapin.

St. Joseph, Mo.—F. W. Hinckley has purchased the stock of the Julius Marr Hardware Co.

Soldiers' Grove, Wis.—F. W. Smith & Co. have purchased the hardware stock of Charles Brimmer.

Arlington, Minn.—H. G. Moskop is now in possession of the hardware store of Fred Lucht.

Greenfield, Ill.—Leon Melvin has purchased an interest in the hardware store of Arnett & Collins.

Marysville, Kan.—J. W. McCauley & Co. have succeeded the Thompson Hardware Co.

Lake Park, Iowa.—August Hamann has purchased the hardware business of Fred Strube.
purchased the hardware stock of E. D. Goodwin.

Saunemin, Ill.—T. L. Spafford has purchased the hardware store of S. J. Speers.

Billings, Mont.—George Fleming of Bemidji, Minn., has purchased the Sande hardware store.

Fairbury, Neb.—Short Bros. have purchased the hardware stock of F. H. Dudley.

Lake Village, Ark.—The Gaines Hardware Co. will be known in future as the City Hardware Co.

MISCELLANEOUS.

Randlett, Okla.—The store of the Duff Hardware Co. was destroyed by fire.

Frederick, Okla.—Fire destroyed the building of the Washita Hardware Co.

Benton Harbor, Mich.—The hardware store of Kramer & Bolieo was burglarized.

Excelsior, Minn.—The hardware store of Josslin Bros. was burglarized.

Romulus, Mich.—W. S. McBride's hardware store was burglarized.

Reading, Pa.—The Stichter Hardware Co. will erect a five-story building to replace the one recently destroyed by fire.

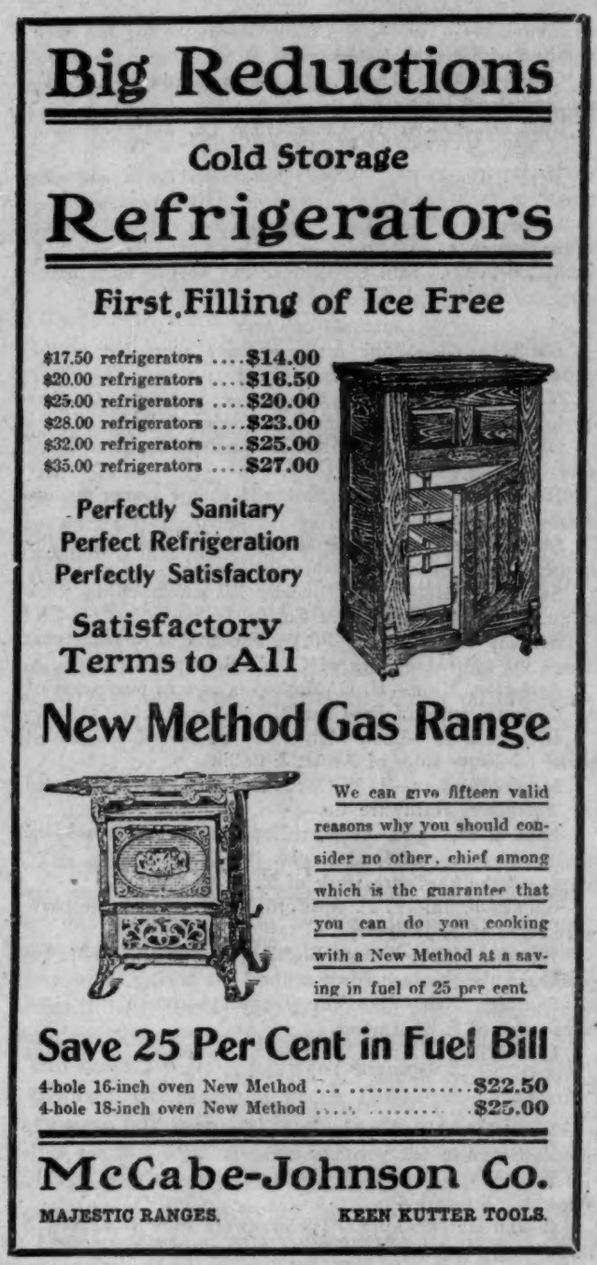
Little Port, Ia.—Reichert's Hardware Store was damaged by fire.

Voorheis, Ia.—The hardware store of M. R. McCormick was burglarized.

Advertising Department

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

The advertisement of The McCabe-Johnson Co. of Spokane, Wash., possesses a number of excellent features. The matter is well laid out, care has been taken in selecting suitable type, due attention has been paid to the display feature and there is sufficient white space inside the border to admit of the advertisement being



read without difficulty. The offer of the McCabe-Johnson Co. to fill each refrigerator with ice at the time it is purchased, as set forth in the fourth line of the ad, is one that might readily be taken advantage of by prospective purchasers of refrigerators. There is every reason to believe that the advertisers found this "free ice" offer to be a profitable one. In having the reduced prices of their refrigerators and gas ranges appear in large full-face type, the McCabe-Johnson Co. evidently realize the necessity of quoting prices when announcing special sales of goods. An unfortunate typographical error appears in the fifth line of the matter opposite the cut of the gas range, "your cooking" reading "you cooking." It is really the only serious error noticeable in the ad, and this would not have occurred had the proof been read more carefully. Spokane is quite a city, and the McCabe-Johnson Co. might, with good advantage to themselves, have mentioned their street address. The advertisemnt appeared in the Evening Chronicle of Spokane, Wash., of July 22, and occupied 9¾ inches of space, two columns wide.

* * *

McManamy & Rodman of Binghampton, N. Y., have a good advertisement in which they draw attention to the Kelsey furnace. The text is well written, and is of such a style that it is almost certain to convince furnace buyers that the Kelsey furnace will perform its heating functions satisfactorily. McManamy & Rod-

man have no doubt received inquiries relative to furnace repairing, for the last paragraph of their advertisement is so phrased that it cannot fail to be productive of good results. The ad is one from which many advertisers should find it possible to obtain some useful pointers. It appeared in the July issue of the Binghampton Evening Herald, and took up 5¾ inches of space two columns wide.

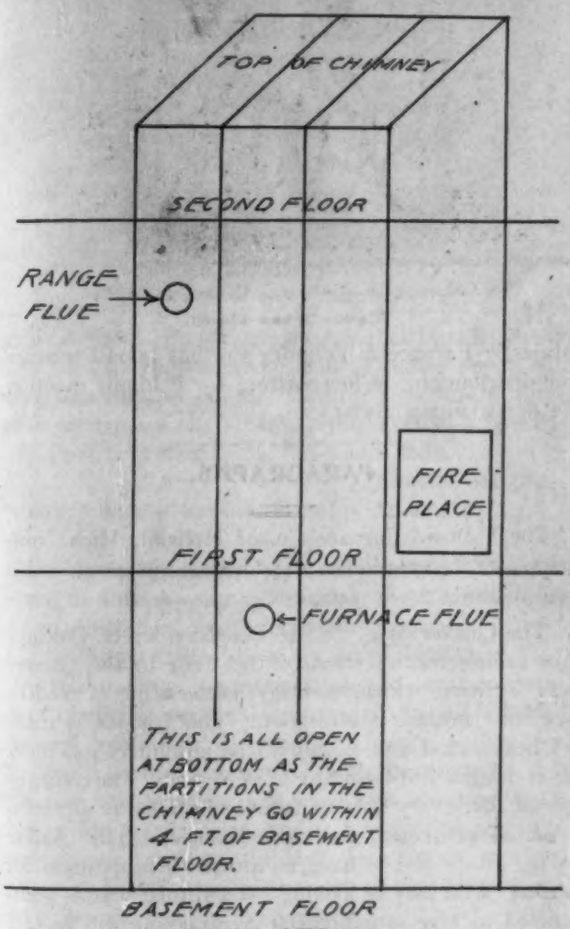
The elixir of life to business is advertising. It is the fountain of youth to business, giving it life and vigor and renewed strength. When business gets dull, use it and see its effects. It is like the well cultivated field. Sow the seed. The harvest will follow. Prepare your barns to receive it, for as sure as you advertise, so sure will you receive the results.—*Exchange.*

Heating and Ventilating

WILL THE FURNACE FLUE WORK?

To THE AMERICAN ARTISAN:

The accompanying drawing is that of a chimney, the notations on it indicating the way that it has been built. The chimney has three flues, and the partitions in the center do not go to the bottom, within four feet. Each flue has one pipe opening, one for the range, one for the furnace and one for the grate, but



Drawing of Chimney.

they all open out at the bottom into one clean-out.

We are very anxious to know whether or not the furnace flue will work satisfactorily. We have a furnace to install on this chimney and we want to ascertain how the flues will work when connected with the furnace.

Trusting to hear from some of your readers on this matter we are

Yours very truly,
J. P. HOWEY & SON.

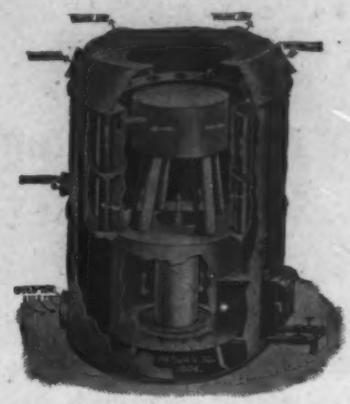
Bryan, Ohio, August 8, 1908.

THE KELSEY "ZIG-ZAG" FLUES.

In the Kelsey warm-air generator, manufactured by the Kelsey Heating Co., Syracuse, N. Y., the fire itself is surrounded by, and the combustion chamber is formed by, cast-iron flues The sides of these flues are cast with deep corrugations, so that the air in passing up through them is deflected from one side to the other, and in that way being evenly and uniformly heated when emerging at the top and before entering the warm-air pipes. If there is any fire in the Kelsey generator the air cannot pass up through these flues, it is said, without being heated. The hotter the fire the more rapidly does the air pass through these tubes. The Kelsey Heating Co. still continue to do a big business with their generators, the outside casing of which is of galvanized iron, the upper half being lined with asbestos sheathing, and this in turn with tin. The fact that air is warmed only by being brought into direct contact with the heated surface is said to be the principle upon which the Kelsey generator is constructed, hence the use of the corrugated cast-iron flues or sections with which the generator is provided. Descriptive literature upon application. When writing for it kindly mention THE AMERICAN ARTISAN.

THE PRACTICAL GAS FURNACE.

After a series of experiments covering a number of years, W. H. Ramaley Co. of Pittsburg, Pa., are offering to the trade their Practical gas furnace, a sectional view of which is shown in the accompanying illustration. The company says that this furnace is the most effective heater of its kind now on the market. It has a large fire chamber with a center tube through it for the admission of cold air at the bottom, and discharging the air at the top of the fire chamber, thereby getting the radiation from the warmest part (the center) of the fire chamber. The burners are circular and of ample size, and the perforations are so arranged that



Sectional View of Furnace.

when gas and air in the requisite proportions are admitted through the adjustable mixers a blue flame is produced which is intensely hot. That the combustion is complete is proven, the W. H. Ramaley Co. says, by the examination of furnaces long in use, which invariably show the fire chamber to be free from soot. The products of combustion travel from the burners directly upward to the top of the fire chamber, thence through tubes to the inner or first radiator, and then passing to the outer or second radiator at the top, and passing around once and going down to the lower flue in the radiator, passing around the second time before entering the smoke pipe to the chimney. By the construction of the second or outer radiator the products of combustion enter the outer radiator at the top, passing around in the flue at the top of the radiator and then to the lower flue in the radiator to the warmest part of the furnace, thus avoiding, it is said, all sweating. W.

H. Ramaley Co. guarantees their Practical gas furnaces not to sweat when the proper flue connections are made.

Because of its manifold arrangements the Practical gas furnace, it is said, will never get so hot as to burn the air, and consequently cannot be injured by overheating. The fire chamber and the center tube in it are made of the best quality of No. 18 planished cold rolled iron. The tubes and radiators are made of the same material, No. 24. All casings are made of the best bloom galvanized iron and lined throughout their entire height with asbestos, which prevents the heat from being radiated into the cellar. W. H. Ramaley Co. has some excellent descriptive literature for distribution. When writing for it kindly mention THE AMERICAN ARTISAN.

THE "IDEAL" COAL OR WOOD WINDOW.

The Majestic Furnace and Foundry Co., Huntington, Ind., have just put on the market the "Ideal" coal or wood window, which besides being a fuel chute, acts as a window in winter and as a screen or ventilator in summer. The body of the chute is made of heavy steel plate, the bottom of the hopper being made

Open View of Window.

of the same material. The door, frame and ends of the hopper are made of a high grade gray iron. The glass used is of transparent celluloid which is guaranteed not to crack, even when subjected to the most severe jar. The wire screen furnished is galvanized, and the makers say that it will not rust. Either the glass or the screen can be easily removed at any time. The steel shield works automatically, and when the door is closed lies in the bottom of the chute, allowing the light to shine into the cellar. The hopper is removable and also works automatically.

The first illustration shows the window automatically locked open, furnishing protection to the siding above the opening where the most damage occurs. The raised lid is the open-work lid shown in the second illustration, when opened for shoveling fuel into the cellar or basement. The chute swings out automatically, a free sliding metal plate protecting the celluloid window plate and wire screen that afford light and ventilation through the open work shown in the second illustration. The loosely sliding metal plate protects the fragile elements mentioned from injury when fuel is being taken into the cellar. When the lid is closed down the plate of metal automatically drops down so that light is admitted. When ventilation is required the celluloid sheet is removed and only the wire screen remains. The device when closed locks on the inside and hence is burglar proof. The

Window When Closed.

Majestic Furnace & Foundry Co. has good literature for distribution. When writing for it kindly mention THE AMERICAN ARTISAN.

PARAGRAPHS.

The Holland Furnace Co. of Holland, Mich., contemplates the erection of an addition to its plant, which will measure 75 by 140 feet.

The Quaker Mfg. Co., 40 Dearborn street, Chicago, are calling the attention of the trade to the Quaker steel furnace, which, they say, is the acme of modern scientific furnace construction. This furnace is made of heavy steel and is said to be absolutely gas-tight. It is designed to burn any kind of fuel. The company states that every Quaker furnace installed is a permanent advertisement for more business. The Quaker Mfg. Co. is said to have an attractive proposition for dealers who may be looking for a furnace that is guaranteed to give satisfaction. A catalogue will be sent upon request. When writing for it kindly mention THE AMERICAN ARTISAN.

CONSIDERS IT INDISPENSABLE.

TO THE AMERICAN ARTISAN:

Enclosed please find $1.00, my subscription for THE AMERICAN ARTISAN for six months. While in Sheboygan I was never without it, and I don't propose to be without it here in Malone. I have opened up a new hardware and tin shop in this town, and I can't afford to be without your valuable paper.

Yours respectfully,

SAM G. WEHNER.

Malone, Wis., August 10, 1908.

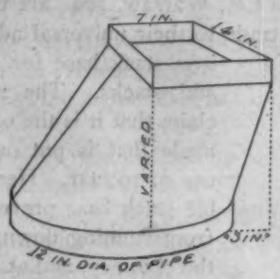
If you feel that your competitors are using too much advertising space, it is a good sign that you are not using enough.

Tinshop

PATTERN WANTED OF WALL STACK BOOT.

To THE AMERICAN ARTISAN:

I am very much in need of a pattern for a wall stack boot, a sketch of the article I want being shown herewith, for we have quite a demand for them in our town. Mr. H. E. Osborne's pattern of a furnace pipe boot is, I believe, a very simple one and accurate, too, but for some reason or other I do not catch all there is



Pattern Wanted for This.

in it and I don't seem to be able to grasp the full idea of his method. Figure 2 is the one that I am stuck on.

If any of the readers of your valuable paper will straighten me out on Mr. Osborne's method or give me a pattern for the accompanying sketch, I will appreciate it very much, Yours truly,

MELVIN SMITH.

1029 Jefferson avenue, Petosky, Mich.

The following is Mr. Osborne's article which appeared in THE AMERICAN ARTISAN some months ago, and to which Mr. Smith has reference:

Furnace Pipe Boot by Triangulation.

As triangulation is a more simple and accurate method of obtaining patterns for some of the more irregular and complicated shapes, this chapter is given for the benefit of those unfamiliar with the process.

Figure 1 is a perspective view of a common shape of boot for furnace pipe, and is a transition piece, or more strictly speaking, the body between the straight collars is a transition piece, and is the portion for which we will develop the pattern.

This boot is to fit a round pipe at one end 10 inches

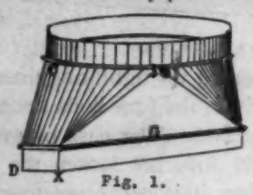


Fig. 1.

in diameter, and to fit a "riser" or wall pipe at the other 2x14 inches.

In practice it is unnecessary to draw the perspective. And even the elevations may be omitted, if the workman has the idea, or the picture of the article in his mind, and the work done entirely with the plan shown at the bottom of Fig. 2, the circle and the parallelogram.

Space the circle into any desired number of equal parts, here 10 are used. Construct a diagram of triangles as shown at the right of "side elevation." Make the perpendicular E B equal to the vertical height of the body of the article, and the base exactly at right angles to it, and of indefinite length. With the dividers measure each of the distances from the corner D to E, 1, 2, 3, 4 and 5 and set each one as found, off to the right from E on the base line of the diagram of triangles, marking each one for future references.

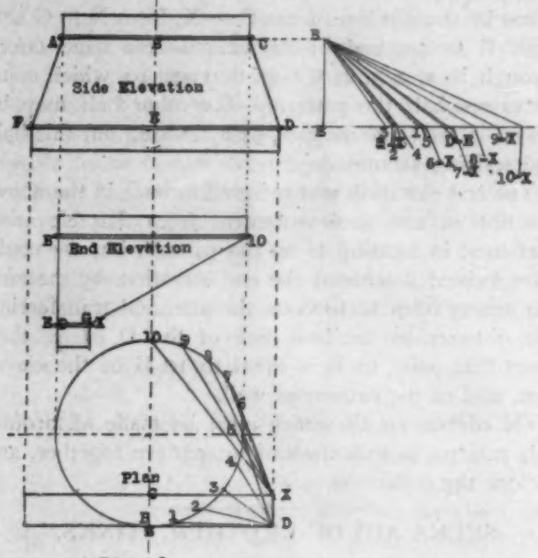
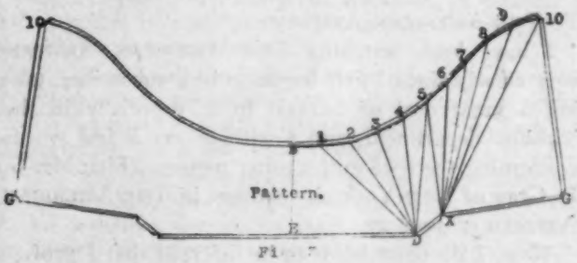


Fig. 2.

Then take the distances from X to 5, 6, 7, 8, 9 and 10 being careful to number each one.

Now to develop the pattern, draw the right angle B E D, making B E equal to the vertical height (B E of the diagram of triangles) and E D equal to E D of the plan (one-half the length of one side of the parallelogram) and with one pair of dividers take the distance from B to 1 on the D of T and place one foot at D on pattern, and with another pair of dividers set to one of the spaces on circle place one foot of these at B on pattern. Describe a short arc to intersect an arc made by the other spanned from D, thus locating the point 1 of the irregular curve of pattern. Keep the one pair of dividers set the length of one of the spaces and continue in rotation, setting the other pair from B to 2 on the D of T and span from D to meet the space dividers at 2, and continue the measurements thus until 5 is located on the curve line of



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pattern. Then take the distance from 5-X from B on the D of T and span downward from 5 on the pattern and meet it with a measurement from D equal to D X on the plan (with width of the parallelogram). Then proceed with the remaining distances the same as with the first quarter of the circle, except we span from X instead of D to locate 6, 7, 8, 9 and 10.

It was necessary for us to take the measurement from 5 to X as well as from 5 to D on plan and trans-

fer it to the D of T in order to locate the point X of the pattern.

Now to locate the point G of pattern take the distance 10 to G shown in "end elevation" and span it downward from 10 on pattern and meet it with the distance X G of plan (half the length of parallelogram) spanned out from X. Connect the points thus found by straight lines from D to X, from X to G and from G to 10, and by drawing a free hand curve through B, 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10, which completes one-half the pattern. The other half may be drawn in the same manner, or by cutting out this half and scribing around it.

The end elevation was referred to once in the above description, and a measurement from that elevation was used in locating G on the pattern, but we could have located it without the end elevation, by measuring across from 10 to G on the plan and transferring the distance to the base line of the D of T, then from that point to B is equal to 10 G of the elevation, and of the pattern as well.

Of course, an allowance must be made all around this pattern, to lock the ends of pattern together, and to lock the collars on.

SEEKS AID OF BROTHER "TINKS."

To THE AMERICAN ARTISAN:

The accompanying illustration represents a joint of pipe with cap, which is all cut from one piece of

Pattern Wanted for This.

metal. I would like to get a brother "tink" to show me through your valuable paper how to obtain a pattern for the same.

Yours very truly,

JOHN F. CARTWRIGHT.

815 State street, Bowling Green, Ky.

THAT ROOF GUTTER MITER PATTERN.

To THE AMERICAN ARTISAN:

I have been watching THE AMERICAN ARTISAN very closely since I first began to be a subscriber, taking a great deal of interest in it, especially in the Tinshop department, and I wish to say a few words concerning the roof gutter miter pattern which Mr. G. L. Gray of New York city showed in THE AMERICAN ARTISAN of June 27.

Now, I do not wish it to be inferred that I profess to know more than some of those who have been in the business ten or fifteen years longer than I have, but I have strung a good many hundred feet of this gutter on almost every kind of roof, and have never been able to find a pattern that will work.

Now, for instance, take a roof of one-half pitch, which we will say is 32 feet from the corner. It is possible to draw a pattern for this run of gutter which will fit all right. Now take the same roof on another building which will only take 21 feet from corner to corner, and you will find that you are up against it with your pattern, for it will not fit. The only way of getting out these miter patterns that I have ever heard of is to cut your miter right up on the scaffold while working on the job.

Hoping to hear from others on this matter, I am

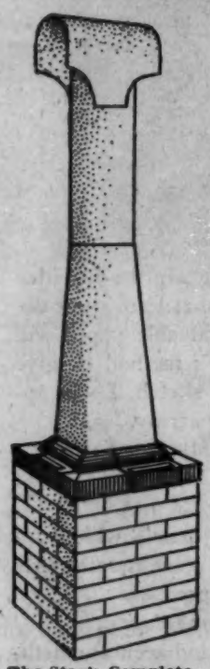
Yours respectfully,

RAY P. NANDELL.

Traer, Iowa, August 8, 1908.

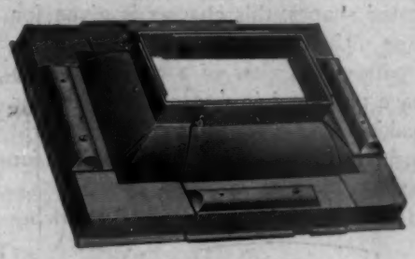
HERRIN'S ADJUSTABLE STACK BASE.

J. M. Herrin Co., Warsaw, Ind., are calling the attention of the trade to their universal adjustable cast-iron stack base for chimney caps and stacks. The manufacturers claim that it is the only stack base made that is put on without the use of mortar. Herrin's adjustable stack base prevents the water from running down the inside of the chimney, and at the same time forms a drip around the outer edge of the chimney in such a way that the water cannot follow down the outside. The first illustration represents the complete stack, the second the cast-iron base upon which the galvanized stack fits and stands. An important feature of this cast-iron base is that it is adjustable. A dealer who carries one or two has a complete line of ordinary sizes as against carrying a large assortment of sizes of another make which even then may not fit all sizes of chimneys.



The Stack Complete.

When the base is applied it extends down over and around the outside of the top layer of brick, thus binding the two together by means of the slotted holes. When forced up tightly against the brick and with a screw-driver, the four bolts are tightened, making it absolutely firm. The base preserves the top of the chimney and does not loosen the brick or harm the chimney when it is necessary to replace the galvanized pipe. By removing the bolts the base can be made to fit four different sizes of chimneys. In changing the size of the base for large or small chimneys the size of the base collar is increased or diminished, as the case may be, thus always leaving the collar the same as the opening in the chimney. Herrin's adjustable stack base is said to do away with the dead air space common with a sheet iron base and lessens the chances of the pipe sweating, thereby adding much to the life of the galvanized iron pipe. J. M. Herrin Co. will furnish the stacks and bases complete, well made in cast base or cap and with the stacks fitted to re-



Herrin's Stack Base.

quired sizes, or will furnish the cast bases for the tinner so that he may make his own galvanized stacks. When writing J. M. Herrin Co. kindly mention THE AMERICAN ARTISAN.

PROGRAM OF SHEET METAL WORKERS' CONVENTION.

The following is the program for the fourth annual convention of the National Association of Master Sheet Metal Workers, which will be held at the Palmer House, Chicago, on August 19, 20 and 21:

WEDNESDAY, AUGUST 19.

10 a. m.—Convention convenes; enrollment of delegates; report of credentials committee; report of treasurer; reading of communications; appointment of committees.

2:00 p. m.—Formal address by Mayor Busse; report of president; paper—"How Shall We Further Increase the Efficiency of Our National Association?" by A. B. Franklin, Boston, Mass.; paper—"The Results of Two Years' Agitation for Trade Protection"; discussion of papers; business. A ladies' theater party will be given in the afternoon.

THURSDAY, AUGUST 20.

9:30 a. m.—Papers.—"The Tin Roof: How Shall Its Use Be Further Increased?" by a jobber, Tanner & Co., Indianapolis, Ind.; by a master, Jesse V. Dailey, Cleveland, Ohio; paper—"The Cost Factor in Conducting Business," by Ralph Childrey, Camden, N. J.; discussion of papers; business.

2:00 p. m.—An automobile ride will be taken around the city. In the evening a banquet will be held at White City.

FRIDAY, AUGUST 21.

9:30 a. m.—Papers—"How Shall the Master Increase His Local Furnace Trade?" from the manufacturer's view, the Federal Furnace League; from the master's view, Clarence M. Lyman, Utica, N. Y.; discussion of papers; business; election of officers; adjournment.

INVITATION TO SHEET METAL WORKERS.

The Inland Steel Co., First National Bank Building, Chicago, has issued an invitation to members attending the convention of the National Association of Master Sheet Metal Workers to visit the works of the company at Indiana Harbor during their stay in the city. The invitation, which appears in the form of an attractive little folder on which is shown a bird's eye view of the big plant at Indiana Harbor, reads as follows:

"We extend you a cordial invitation to visit our Indiana Harbor works while you are attending the Master Sheet Metal Workers' convention, August 19 to 21. There you will see the making of sheet steel, the ore made into pig metal, then into open hearth steel ingots, then to blooms and to sheet bars, the rolling of the sheets, the shearing, cold rolling, annealing, pickling and galvanizing; in further finished form, the corrugating and other forming for roofing, patent leveling, shipping, etc.

"We think this will interest you and we will arrange to have an announcement of further details concerning this made on the first day of your meeting."

GINGER CIRCULARS FOR SHEET METAL WORKERS.

The following is Circular No. 7 of a series of ten circulars that W. H. Barnard of Norfolk, Va., secretary of the National Association of Master Sheet Metal Workers, has sent out to local associations:

"The National Association of Master Sheet Metal Workers, ever watchful for something to do for the benefit of the master sheet metal worker, is using its influence to let the people of our entire country know the superiority of warm air heating and ventilating over steam or hot water heating. This feature alone will increase the business as well as the profits of the master sheet metal worker to a vast extent, and yet no master sheet metal worker will be taxed a dollar for the expense. Look out for furnace advertising in the monthly magazines similar to the roofing tin advertisement, which appeared some time ago. Attend your local meetings."

METAL ROOFS VS. SLAG AND COMPOSITION ROOFS.

W. H. Barnard of Norfolk, Va., secretary of the National Association of Master Sheet Metal Workers of the United States, is sending out the following circular in the interest of sheet metal roofing:

"In various parts of the United States many disastrous fires have been reported in buildings that have been covered with gravel, slag and composition roofs. On account of the cheapness in the cost of applying these roofs, they are being largely used, because in most instances the rate of fire insurance on buildings that are roofed with this material is about the same as when covered with a fire-retarding or fireproof metal roof. The owner is of course seeking to install his building at the lowest possible cost and the higher priced metal roof is therefore not used in many cases where it should be.

"The manufacturers of composition roofs are shrewdly and diligently taking advantage of present conditions and are industriously and extravagantly advertising their goods to the detriment of metal roofs. I have nothing disparaging to say of their efforts, but I would ask a few questions:

"In the first place, the National Association of Master Sheet Metal Workers has very successfully induced the manufacturers of tin plate to give the deepest attention to the quality of the tin plate which they are making for roofing purposes, and there is an abundance of evidence that more care is being given to the quality of roofing tin than was the case some time ago.

"Therefore let me ask: First, as you are a master sheet metal worker, you certainly must know sheet metal roofs (to say the least) possess fire-resisting qualities that are not possessed by slag, gravel or tar roofs.

"Have you made any effort in your city to point out to the city authorities on one hand and to the local board of fire insurance men on the other, the superior fire-resisting qualities of metal roofs over the other kind?

"Do you know that a building covered with an inflammable roof should reasonably bear a higher rate of fire insurance than if covered with a light, water-tight, fire-proof metal roof?

"If this were the case, can you not see that it would give a tremendous boost to the metal roof business?

"The National Association of Master Sheet Metal Workers has been very diligent in promoting the formation of local associations of master sheet metal workers, and it is the duty of such organizations, when formed, to look about them and work to improve their business conditions.

"What has your local done in reference to advancing tin

roofing interests by seeing to it that competitive roofs of other kinds should be handicapped by higher insurance rates, in proportion to their more inflammable character?

"Do you know that the National Association of Master Sheet Metal Workers has conducted (for the purpose of exposing the difference) exhibitions of the fire results of the two kinds of roofs and has liberally distributed illustrations of the same?

"The National Association meets only once a year, and while it is busy in giving a good account of itself, it does not have the opportunity to do detail work that local associations have, that meet, say twice a month.

"The National Association will appreciate with the keenest interest a good report in this line from any local at the Chicago convention, which meets August 19, 20 and 21, 1908."

INQUISITIVENESS PERSONIFIED.

The old saying that "some people want the earth with a fence around it," is very clearly exemplified in the following letter from George Wilson of The George Wilson Hardware and Supply Co. of Florence, Colo., which concern recently advertised in THE AMERICAN ARTISAN for a sheet metal worker and plumber. It also goes to show that some people do not know what they want. The letter follows:

TO THE AMERICAN ARTISAN:

We have had about twenty applications for the position which we recently advertised in THE AMERICAN ARTISAN, and in each application the inquiry has been made about what wages we pay, what kind of a shop we run, how many men we employ, etc., etc. To save time we would like to state through your paper what kind of a shop we have, what wages we pay and what we expect to get in return.

Our shop is a small one, employing only one, sometimes two men and a helper, with the assistance of the writer, when the work demands it. We do any and all kinds of sheet metal work, plumbing and any other kind of mechanical work that can be done in a shop like ours.

Our town has 3,500 people with a surrounding neighborhood of about three or four thousand more. There are three shops of this kind in the town and competition is very keen.

We pay not exceeding $20 per week for eight hours' work a day to start, and the rate of wages depends entirely on the ability of the workman, from the fact that the shop must be profitable or it would be better to shut it up.

The last man that worked for us was with us nearly ten years. House rent costs from $8 to $15 per month, according to the kind of house and the locality. Board is $5 per week and room rent from $5 to $10 per month, according to what a person wants.

The altitude of Florence is 5,100 feet. We have the finest climate in the world, but our town is a small one and we do not expect to get the finest on earth, but are willing to treat a man right and hope for the same in return.

If any man wishes to apply for the position on the above terms he must write us at once. We reserve the right to terminate the engagement of the man we may employ at any time, if his services are not satisfactory. The applicant must be capable of doing good honest work.

Yours truly,
THE GEO. WILSON HARDWARE & SUPPLY CO.
GEO. WILSON, Manager.

Florence, Colo., August 8, 1908.

WHO CAN ANSWER THIS?

TO THE AMERICAN ARTISAN:

Will you please inform us where the VON DUPRIN self-releasing fire exit latch is manufactured, and who the manufacturers are?

Yours very truly,
H. WELSCH & CO.

311 W. Overland street, El Paso, Tex.

NOTES AND QUERIES.

TOBACCO TOOLS.

From G. S. Hoover & Son, Lynn, Indiana.

Can you inform us where we can buy tobacco tools for seeding, binding and harvesting?

Ans.—Nagley Mfg. Co., Lyons, N. Y.

POTTERY.

From Dothan Sheet Iron & Roofing Co., 22 N. Foster St., Dothan, Ala.

We wish to get in communication with a pottery factory, as we want to carry a line of jugs and jars for the convenience of our trade.

Ans.—Union Stoneware Co., 33 Market street, Chicago, Ill.; George Brush Pottery Co., Zanesville, O.; Roseville Pottery Co., Masonic Temple, Chicago, Ill.

ITEMS.

Horning & Wolf will erect a tin can factory in Buffalo, N. Y. The plant is expected to be running by November.

The following delegates and alternates from Omaha, Neb., will attend the Chicago convention of Master Sheet Metal Workers: Delegates—M. Bjornson, R. L. Carter, G. T. Epenter; alternates—T. P. Williams, Carrol Johnson and Harry Hussie.

One hundred and fifty squares of Scott's extra coated hammered open hearth roofing plate, manufactured by Follansbee Bros. Co. of Pittsburg, are required to roof a new church at Winchester, Ky., for which G. N. Wasserboehr of Winchester was awarded the roofing contract.

The Model Fireproof Sash & Door Co. of New York city has been incorporated with a capital stock of $5,000 to manufacture fire-proof trimmings, metal covered goods, etc. The incorporators are David T. Duetsch, J. Charles Weschler, Louis B. Rosenberg of New York city and A. P. White of East Orange.

Tanner & Co., "The Quick Shippers," Indianapolis, Ind., make the announcement that they have added to their already extensive stock over 25 new gauges and sizes of black and galvanized sheets. They carry over 125 different gauges and sizes in cold rolled steel, Nos. 14 to 28; Wood's refined iron, Nos. 14 to 27; galvanized steel, Nos. 14 to 30; genuine re-hammered charcoal; galvanized iron, Nos. 20 to 28; Wellsville polished steel, 28x60 and 24x101; hammered polished steel, 28x60; Wood's planished iron, A and B, 28x60, and genuine Russia iron, Nos. 10 and 11, 28x56. They will be pleased to quote prices upon request, and when writing them kindly mention THE AMERICAN ARTISAN.

DELUGED WITH ANSWERS.

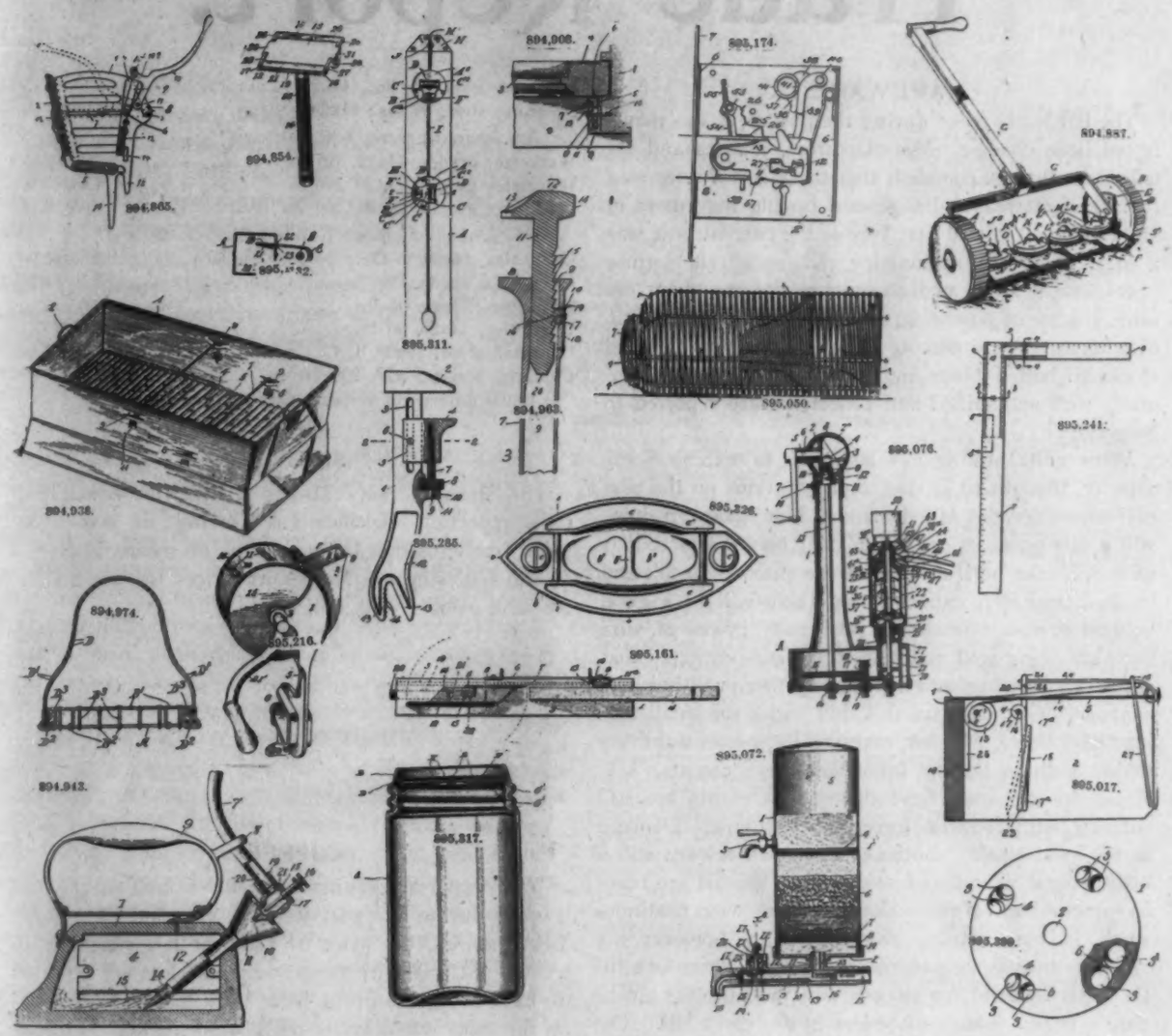
TO THE AMERICAN ARTISAN:

For Heaven's sake take my advertisement out of your paper for tinner wanted, or I shall have to sit up all night to send replies to those who have answered the ad. I have been a subscriber to THE AMERICAN ARTISAN since its birth.

Yours truly,
C. E. DELONG.

Superior, Wis., July 24, 1908.

NEW PATENTS.



894,854—Safety-Razor. Richard H. Reed, New York, N. Y., assignor to The Patent Ownership Company, New York, N. Y., a Corporation of New York. Filed April 10, 1907. Serial No. 367,358. Renewed Dec. 30, 1907. Serial No. 408,601.

894,865—Mop-Wringer. Willis H. Wetmore, Oneida, N. Y., assignor to Charles A. Lee, Oneida, N. Y. Filed Feb 6, 1906. Serial No. 299,695.

894,887—Lawn-Mower. James H. Holland, Shasta, Cal. Filed Jan 30, 1907. Serial No. 354,849.

894,903—Weather-Strip. Edwin G. Reed, Wilkinsburg, Pa. Filed Nov. 4, 1907. Serial No. 400,484.

894,938—Dish-Drainer. Martha E. Brockman, Pittsburg, Pa. Filed Mar. 31, 1908. Serial No. 424,314.

894,943—Sad-Iron. Alfred L. Eccles, Trenton, N. J., assignor to John Maddock, Trenton, N. J. Filed July 3, 1906. Serial No. 324,674.

894,963—Wrench. Nathaniel W. Martin, Willard, Ga. Filed July 31, 1907. Serial No. 386,369.

894,974—Cooking Utensil. Anna M. Nicodemus, Chicago, Ill. Filed Feb. 17, 1905. Serial No. 245,987.

895,017—Animal Trap—William C. Hooker, Abingdon, Ill. Filed Nov. 30, 1907. Serial No. 404,483.

895,050—Rat-Trap. Theodore L. Smith, Detroit, Mich. Filed Nov. 16, 1907. Serial No. 402,428.

895,072—Filter. Alonzo E. Chapman, Redlands, Cal. Filed Nov. 8, 1906. Serial No. 342,571.

895,076—Cream Separator. William L. Dillman, Kokomo, Ind. Filed July 31, 1907. Serial No. 386,445.

895,132—Lantern. Frederick K. Wright, Syracuse, N. Y., assignor to R. E. Dietz Company, New York, N. Y. Filed Sept. 9, 1907. Serial No. 391,890.

895,161—Vegetable and Fruit Slicer and Cutter. Joseph A. Childress, Pilot, Va. Filed Oct. 13, 1906. Serial No. 338,796.

895,174—Lock. Charles E. C. Edey, Tacoma, Wash., assignor of one-half to Alfred S. Edey and Dunbar F. Edey. Filed Aug. 26, 1907. Serial No. 390,241.

895,216—Vegetable Slicer. Charles E. Wagner, Cedar Rapids, Iowa. Filed Jan. 26, 1907. Serial No. 354,295.

895,241—Carpenter's Square. Pulaski J. Cooley, Chicago, Ill. Filed Nov. 25, 1907. Serial No. 403,626.

895,285—Wrench. John R. Morris, Marshalltown, Iowa. Filed Oct. 7, 1907. Serial No. 396,303.

895,311—Level and Plumb Rule. William W. Stettler, Allentown, Pa. Filed Mar. 16. 1907. Serial No. 362,716.

895,317—Fruit Jar Cover. Spirit J. Vasaly, Little Falls, Minn. Filed Aug. 27, 1906. Serial No. 332,228.

895,326—Sad-Iron. Harry E. Asbury, Philadelphia, Pa., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 16, 1904. Serial No. 216,833.

895,399—Churn-Dasher. Thomas S. Gill, Dade City, Fla., assignor of one-half to Jefferson D. Sumner, Dade City, Pa. Filed Nov. 13, 1907. Serial No. 402,039.

Trade Report.

HARDWARE.

The hardware trade during the past week has manifested little change. Manufacturers, jobbers and retailers seem to be confident that the fall will witness a revival of interest and a general buying movement in all grades. It is said that July of the current year was a little under the normal for that month in former years, and it looks as if August would see about the same volume of business as is usual during this month. Manufacturers are placing their hopes in the depleted stocks of both jobbers and retailers. Prices are generally well maintained and collections are reported to be good.

Wire nails are again beginning to exhibit some activity, thought to be due to preparations on the part of jobbers for the fall demand. Manufacturers have still a fair quota of orders on their books, which, it is said, will take until the end of the summer to fill, and by that time it is expected that there will be a good volume of new business in progress. Prices of wire nails are being well maintained, but it is expected that should jobbers begin to buy heavily there will be some advance. Cut nails are still dull under the small takings of jobbers, who are carrying light stocks and are taking nothing beyond immediate requirements. Mill shipments are small, and the various plants are still running with reduced forces on part time. Demand in the local market continues light. Prices are still a little irregular, and concessions from the list are readily procurable. New business in barb wire continues small, it being between seasons. Mills, however, are shipping heavily against old contracts. There is a little better demand for smooth wire, and dealers anticipate a heavy volume of orders in the early fall. The base price of wire nails at the mill is $1.95 per keg. The jobbing price is $2 at the mill for full carloads, $2.10 at the mill for less than carloads and $2.40 out of store. The base price of cut nails at the mill is $1.80 per keg. The jobbing price is $1.85 for full carloads at the mill, $1.95 for less than carloads at the mill and $2.25 out of store.

In the Chicago market wire nails are quoted at $2.13; painted barb wire, $2.28; galvanized barb wire, $2.58; smooth annealed wire, $1.98; smooth galvanized wire, $2.28; galvanized staples, $2.53; polished staples, $2.23. Quotations to retailers in car lots are 5 cents higher and in less than car lots 15 cents higher.

TINPLATE.

The American Sheet & Tin Plate Co. gained 8 per cent in its operations during the week, running 60 per cent of their mills. The demand for tin plate is as great as ever, but the hot mills produce more black plate than the tinning mills can finish, hence the mills have to close until the finishing departments catch up. The independent sheet mills are doing fairly well, and are said to be working to 75 per cent capacity.

Am. coke tins, I. C., from store, New York:	
Bessemer steel, 107 lbs., 14x20	$4.35@4.40
Bessemer steel, 100 lbs., 14x20	4.20@4.25
Bessemer steel, 95 lbs., 14x20	4.10@4.15
Bessemer steel, 90 lbs., 14x20	4.00@4.05
Am. charcoal terne, 8-lb. coating—	
Worcester grades, 14x20, 107 lbs	4.30@4.35
Worcester grades, 14x20, 100 lbs	4.15@4.20
Worcester grades, 20x28, 200 lbs	8.05@8.10
For prompt shipment, f. o. b. mill—	
Coke, tins, 14x20, I. C	3.85@3.90
Coke, tins, 14x20, 200 lbs	3.70@3.75
Coke, tins, 14x20, 95 lbs	3.65@3.70
Coke, tins, 14x20, 90 lbs	3.60@3.65
Charcoal, terne, 20x28, I. C	7.30@7.35
Charcoal, terne, 20x28, 200 lbs	7.00@7.05

Usual differences for odd sizes and weights.

SHEETS.

The sheet market exhibits a little more activity, mills reporting specifications coming in somewhat more freely, though business is by no means heavy.

The following are New York prices for 500-bundle lots and over, f. o. b. mill:

	Galvanized Net.
No. 30	4.05
No. 29	3.80
No. 28	3.65
No. 27	3.35
Nos. 25 to 26	3.15
Nos. 22 to 24	2.95

COPPER.

The copper market has been excited and sharply advanced during the past week, a net gain of ½ cent being scored, the price of Lake at last reaching 14 cents. At this price 1,000,000 pound lots are reported to have been sold in the New York market, with sales at the same quotation in the Boston market. Electrolytic is being held firmly at 13⅞ cents, with consumers willing to buy all grades at the advance. Meanwhile producers are content to hold their copper at a 14-cent basis for a while, the present level being very satisfactory. The New York Metal Exchange quotes copper firm at 13¾@14 cents for Lake, 13⅝@13⅞ cents for electrolytic and 13⅜@13⅝ cents for casting. The London market shows a net advance for the week of £1 2s 6d on spot and £1 on futures at £61 5s and £62 respectively.

Sheet copper has been advanced 1 cent in sympathy with the market for ingots, the new base price being 18 cents. Yellow metal is unchanged at 16 cents for dimensions, 14 cents for sheathing and sheathing nails, 15 cents for slating nails and 16 cents for keel and stem metal.

Extreme fluctuations for this year:

	Highest.	Lowest.
Electrolytic copper, spot	13⅞	12¼
Lake copper, spot	14	12⅜
Casting copper, spot	13⅝	12⅛

SPELTER.

Spelter is higher and firmer in all markets, New York quoting 4.70@4.75 as to quantity. St. Louis

quotes 4.62½. The Boston jobbing price is 5⅛@5¼ cents.

Extreme fluctuations for this year:

	Highest.	Lowest.
Spot, New York	$4.80	$4.30
Spot, London	£22 0 0	£18 0 0

COKE.

The market continues steady under a more or less routine business. Large contracts are about all placed, but there is a good aggregate business from small consumers, taking from one to two cars a week. Prices are fairly uniform, with $2.25 inside on foundry. Furnace grades are still a little irregular owing to the competition of the various ovens in the Connellsville district, with anything from $1.55 to $1.75 being quoted.

PIG IRON.

There is a very general improvement in the market for pig iron in all sections, more actual business having been consummated during the past week than in any week since the beginning of the depression. The number of inquiries is showing a steady and very satisfactory increase from week to week, and some good-sized orders have been placed recently, large and small concerns being in the market for lots of varying tonnage. Prices have stiffened up considerably during the week, especially on Alabama iron, and no concessions are being made at present. The Tennessee Coal & Iron Co. advanced its quotation to $12.50, and was followed by the Sloss-Sheffield Steel & Iron Co., this placing practically all the Alabama furnaces on the same basis. The Virginia furnaces, which held their prices very firmly throughout the depression, are in some instances asking still higher prices, and some concerns in New York and Pennsylvania are reported to be holding at an advance of 50 cents per ton. There seems to be a general prevalence of effort to purchase for delivery over a longer period, many inquiries now being for the first quarter of 1909, though it is doubtful if any actual sales have been closed for this delivery, most of the transactions being for immediate delivery or for the last quarter of the current year. It is almost impossible to buy for speculation under present conditions, as the furnaces are unwilling to sell ahead of this year at current prices, this and the desire for delivery next year showing that both furnace men and consumers believe that prices will be higher after the end of 1908. Though all the furnaces are now practically on the same basis of selling price as the others in their district, the market range of quotations is unchanged, as it did not include concessions from the former asking prices.

CHICAGO MARKET.

Lake Superior charcoal	$19.50@20.00
Northern foundry No. 1	17.50@18.00
Northern foundry No. 2	17.00@17.50
Northern foundry No. 3	16.50@17.00
Southern foundry No. 1	16.85@17.35
Southern foundry No. 2	16.35@16.85
Southern foundry No. 3	15.85@16.35
Southern foundry No. 4	15.35@15.85
Southern No. 1 soft	16.85@17.35
Southern No. 2 soft	16.35@16.85
Southern gray forge	15.10@15.60
Southern mottled	14.85@15.10

PITTSBURG MARKET.

No. 1 foundry	15.90@16.15
No. 2 foundry	15.40@15.65
Gray forge	14.90@15.15
Bessemer	16.40@16.65
Basic	15.90@16.40

BIRMINGHAM MARKET.

No. 1 foundry	12.50@13.00
No. 1 soft	12.50@13.00
No. 2 foundry	11.75@12.00
No. 2 soft	11.75@12.00
Gray forge	10.25@10.50

Rogers, Brown & Co., Cincinnati, will say in their weekly report: "Active inquiry resulting in prompt sales for tonnage contemplated has made the pig iron market this week one of interest and satisfaction. There seems to be increasing security felt by buyers in placing business for extended period as it is possible to get respective furnaces to quote, and the result has been that the total tonnage in the Central Territory has footed up well. As an effect of the active market in the last three weeks some furnaces are refusing to quote, others are much firmer in price, and still others have advanced figures and are very firm in their ideas. This situation is particularly true in the South, to which point has gone a large bulk of the recent buying. Consumption appears to be increasing. In several lines consumers report better business than for any time for over a year. On the other hand, there are still some lines that are doing practically nothing on account of manufacturing for buyers who are still steadfastly refusing to come into the market. A considerable range in prices in Northern iron is noticeable, but as the bookings at various furnaces for the balance of 1908 continue to be taken up, this, it is expected, will be rapidly reduced and Northern producers will shortly be lined up on a scale more in harmony than is now in evidence. Some grades are scarce; furnace stocks are being reduced and there is a better feeling throughout the trade.

"Pig iron production during the month of July is reported as being some 130,000 tons increase over June and this brought the half year's production to approximately 7,000,000 tons. This is a trifle more than one-half as much as was produced during the same period a year ago.

"Coke is exceedingly active, especially in furnace grades, and it is reported that the plants in the Virginia and the Pocahontas fields have all they can take care of for the immediate future. Production is increasing and prices for furnace fuel are very stiff after a slight advance. The action of the miners in the Birmingham District has made itself felt in this respect as coke from the Virginia and Pocahontas fields is going into Southern furnace stacks. Foundry Coke is steady and good brands are still offering at attractive figures, although most of the companies have booked a round tonnage for several months to come."

Matthew Addy & Co., Cincinanti, will say in their weekly report: "Through all the middle west consumers of pig iron have been buying this week. The purchasing has been widespread and general in character in that no particular industry has been the leader. Two of the Ohio pipe shops placed round lot orders, a large agricultural implement works bought a good tonnage, several malleable works have filled up, yet the large orders have been eclipsed by the volume of many small orders. Lots of from 50 tons up to 250 tons have been numerous. Most of the deliveries named in the contracts are for the balance of the year, though some iron has been bought for the first quarter of 1909 and there has been quite a demand for the second quarter. So far as we know the furnaces are unwilling to make contracts so long in the future, preferring at the prices which are now ruling to not go farther ahead than is absolutely necessary.

"In southern iron there has been this month a sharp advance. From the old price of $11.50, Birmingham, for 2 foundry, the market has gone to $12.50, at which quotation most of the southern ironmasters are firm. The result of this advance has been not to entirely stop the buying of southern iron, but to somewhat check it as consumers in many cases are waiting to see if the advance can be maintained. Northern iron in consequence has had a freer field and the bulk of this week's tonnage has gone to the northern furnaces. Their prices have not yet been advanced.

"The coke market has been brisk and good.

"As a matter of fact the recent history of the iron trade shows a great industry rising from the depths of a profound depression and slowly with many halts and much hesitation gettting on the firm and solid road of prosperity again. Just now the main thing lacking to really make the situation very good indeed is the absence of buying of finished stuff by the railroads. Yet even without the railroads the iron trade is reviving."

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x20	$6 40
IX	14x20	7 45
IXX	14x20	8 60
IXXX	14x20	9 85
IXXXX	14x20	11 00
IC	20x28	13 70
IX	20x28	15 70
IXX	20x28	18 15
IXXX	20x28	20 55
IXXXX	20x28	22 95

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$ 8 5
Cokes, 200 lbs	IC	20x28	9 00
Cokes, 216 lbs	IC	20x28	9 50
Cokes, 270 lbs	IX	20x28	11 25

PIG IRON.

North'n Fdy., No. 1	$17 50@$18 00
North'n Fdy., No. 2	17 00@ 17 50
North'n Fdy., No. 3	16 50@ 17 00
Southern Fdy., No. 1	16 35@ 16 85
Southern Fdy, No. 2	15 85@ 16 35
Southern Fdy., No. 3	15 35@ 16 85
Southern Fdy., No. 4	14 85@ 15 35
Southern No. 1 Soft	16 35@ 16 85
Southern No. 2 Soft	15 85@ 16 35
Southern Gray Forge	14 35@ 14 85
Southern Mottled	15 10@ 15 60
Lake Sup. Charcoal	19 50@ 20 00
Southern Silveries, 4% Silicon	17 85@ 18 35
Southern Silveries, 5% Silicon	18 35@ 18 85
Southern Silveries, 6% Silicon	19 35@ 19 85
Jackson Co. Silveries, 6 per cent	19 90@ 20 40
Jackson Co. Silveries, 8 per cent	20 90@ 21 40
Jackson Co. Silveries, 10 per cent	21 90@ 22 40
Malleable Bessemer	17 00@ 17 50
Standard Bessemer	18 25@ 18 75
Alabama Basic	16 35@ 16 85

BLACK STEEL SHEETS.

No. 12 per 100 lbs.	$2 20@$2 30
No. 14 per 100 lbs.	2 25@ 2 35
No. 16 per 100 lbs.	2 35@ 2 45
Nos. 18-20 per 100 lbs.	2 60@ 2 65
Nos. 22-24 per 100 lbs.	2 65@ 2 70
No. 26 per 100 lbs.	2 70@ 2 75
No 27 per 100 lbs.	2 75@ 2 80
No 28 per 100 lbs.	2 85@ 2 95

GALVANIZED

No. 10 per 100 lbs.	$3 05@$3 10
Nos. 12-14 per 100 lbs.	3 05@ 3 10
No. 16 per 100 lbs.	3 05@ 3 10
Nos. 17-21 per 100 lbs.	3 15@ 3 25
Nos. 22-24 per 100 lbs.	3 30@ 3 35
No. 26 per 100 lbs.	3 50@ 3 55
No. 27 per 100 lbs.	3 70@ 3 75
No. 28 per 100 lbs.	3 90@ 4 00

POLISHED SHEET STEEL.

No. 24 per 100 lbs	$4 90
No. 26 per 100 lbs.	5 00
No. 27 per 100 lbs.	5 10
No. 28 per 100 lbs.	5 20

SMOOTH STEEL.

Wood's Smooth,	No. 20	$3 05
" "	No. 22-24	3 10
" "	No. 25-26	3 15
" "	No. 27	3 20
" "	No. 28	3 30

PATENT PLANISHED SHEET IRON.

Patent Planished Sheet Iron, "A" $10.20, "B" $9 20

PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel 8½c

SOLDER.

XXX Guaranteed ½ & ½ ... per lb.	18 c
Commercial ½ & ½ ... per lb.	17½c
No. 1 Plumbers	15½c

SHEET ZINC.

500 lb. Casks ..... case, per cwt.	$7 15
300 lb. Casks ..... per cwt.	7 15
Sheets ..... per cwt.	7 15

COPPER.

Copper sheet, 100 lbs. over, base ... 17c

TIN PIGS AND BARS.

Banca, pigs, per lb	29 c
Straights, pigs, per lb	29 c
Straights in bars, per lb	32 c

LEAD.

American Pig	4 c
Bar	4 c
National (White) brands (in less than 100 lb lots), per lb	8½c

Sheet.

Full coils ..... per 100 lbs.	$9 60
Cut coils ..... per 100 lbs.	9 50

HARDWARE.

ADZES.

Carpenters'.
Plumbs 40%

Coopers'.
Barton's 20%
White's 10%

Railroad
Plumbs 40%

Ship.
Plumbs 40%
White's 12½%

AMMUNITION.

Caps, Percussion—per 1,000.

F. L Waterproof, 1-10s	40c
G D	35c
Musket	60c

Shells, Loaded—
Loaded with Black Powder 40%
Loaded with Smokeless Powder, medium grade ..... 40 & 5%
Loaded with Smokeless Powder, high grade ..... 40 & 10 & 10%

Union Metallic Cartridge Co.:
New Club, Black Powders 40%
Nitro Club, Smokeless Powders, ... 40 & 5%
Arrow, Smokeless Powders .... 40 & 10 & 10%

Winchester:
Smokeless Repeater Grade. . 40 & 5%
Smokeless Leader Grade. 40&10&10%
Black Powder 40%

Gun Wads—per 1,000.
Winchester Gun Wads 15%

Powder.			Each.
DuPont's Sporting,	kegs		$ 50
" "	½ kegs		2 50
" "	¼ kegs		1 40
Dupont's Sm'k'less.	50-lb. drum		22 45
" "	25-lb. kegs		11 20
" "	12½-lb. kegs.		5 80
" "	6¼-lb. kegs.		2 97
"	1-lb. cans		15

Shot.
Drop shot, sizes smaller than B, 25-lb. bags, per bag 1 95
Drop shot, B and larger sizes, per 25-lb. bags, per bag 2 20
Buck Shot, 25-lb. bags, per bag 2 20
Chilled Shot, 25-lb. bags, " 2 20

ANCHORS

Expansion Screw Anchors 10%

ANVILS

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper 33⅓%

AUGURS.

Boring Machine 70%
Irwin's ..... 40&10%
Carpenter's Nut 70%
Hollow.
Bonney's—list $30.00 ..... 75&5%
Stearns, No. 3 ..... 36 00
Post Hole.
Digwell, 8-inch ..... per doz. 12 50
Iwan's Post Hole and Well .. 40%
Vaughan's, 4 to 9-in., per doz. 6 25
Rafting.
Snell's ..... 50&5%
Ship.
Ford's, with or wi'out screw. 40-12½%
Snell's " " " 40-5%

AWLS.

Brad.
No. 3 Handled ..... per doz. $0 40
No. 1050 Handled ..... " 80
Shouldered, assorted, 1 to 4, ... per gro. $1 20
Patent asst'd, 1 to 4 ... " 85
Harness.
Common ..... " 95
Patent ..... " 90
Peg.
Shouldered ..... " 1 20
Patent ..... " 60
Scratch.
No 1 handled ..... " 4 80
No. 15, socket handled per doz. 1 25
No. 7 Stanley 1 80
Sewing.
Common ..... per gro. 90
Patent ..... " 90

AXES.

Boy's Handled.
Lippincott, 3 lb ..... per doz. $6 00
Falls City ..... " 6 00
Broad.
Plumbs, West. Pat 33⅓%
" Can. Pat 40%
" Firemen's (handled) ..... per doz $1, 75
Plumbs, Miners' (handled) " 6 75
Single Bitted (handled)
Gladiator . 3 to 4 lbs , per doz $11 00
Flint Edge " " " 9 25
Standard .. " " " 9 25
Elec Chopper, Forest Clipper 10 50
Perfect Premier " " 10 00
Crown " " 7 00
Single Bitted (without handles)
Gladiator ... 3 to 4 lbs. per doz. $8 50
Flint Edge. " " 7 00
Standard ... " " 7 00
Electric Chopper " " 8 25
Perfect ..... " " 7 75
Crown ..... " " 6 25
Double Bitted (without handles).
Gladiator ... 3 to 4 lbs. per doz. 11 50
Flint Edge. " " 9 75
Perfect ..... " " 11 00
The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs advance 25c
4 to 4½ lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's 40%
Pelouze 20%

BARS. CROW.

Pinch or Wedge Point .. per cwt. $3 75

BASKETS.

Clothes.

Small Willow ..... per doz.		$7 00
Medium " ..... "		8 75
Large " ..... "		10 50
Galvanized Iron.	½ bu.	1 bu. 1½ bu.
Per doz	$4 75	6 50 8 00

BEATERS.

Carpet.	per doz.
No. 10 Coppered Spring Wire.	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	1 10

Egg.	Per doz.
No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths' 65%
Hand.
8-inch ..... per doz. $8 50
10-inch ..... " 10 50
Moulders'.
12-inch ..... " 12 50

BELLS.

Call.
3-inch Nickeled Rotary Bell, Bronzed base ..... per doz. $5 60
Cow.
High Grade 60%
Kentucky ..... 65&10%

Door.	Per doz.
New Departure Automatic	$6 00
Rotary.	
3 -in. Old Copper Bell	4 00
3 -in. Old Copper Bell, fancy	6 00
3 -in. Nickeled Steel Bell	4 50
3½-in. Nickeled Steel Bell	5 00

Hand.
Hand Bells, polished ..... 50&5%
White Metal 40%
Nickel Plated 30%
Swiss ..... 40&33⅓%
Silver Chime 33⅓%
Miscellaneous.
Church and School, steel alloy .. 50%
Farm, lbs 40 50 75 100
Each $1.25 1.00 2.35 2.85

BEVELS, TEE

Stanley's, rosewood handle, new list 25%
Stanley's iron handle 25%

BINDING, OILCLOTH.

Zinc 80%
Brass ..... 70&10%
Brass plated ..... 75&5%

BITS.

Auger.
Extra Double Spur ..... 70&10%
Ford's Car and Machine .... 40&10%
Triumph ..... 50&5%
Ford's Ship ..... 40&10%
Irwin 50%
Russell Jenning's ..... 25&10%
Clark's Expansive 60%
Steer's " Small list, $22.00 .25%
" " Large " $36.00 .25%
Irwin Car 45%
Ford's Ship Auger pattern Car ..... 40&10%
Center ..... 40&10%
Countersink.
No. 18 Wheeler's ..... per doz. $1 25
No. 20 " " " 1 75
American Snail head .. " 75
" Rose " .. " 90
" Flat ..... " 75
Mayhew's Flat ..... " 1 25
" Snail ..... " 1 25
Dowell
New Jennings ..... 40&10%
Gimlet.
Standard Double Cut 60%
German Pattern ..... per doz. $0 60
German ..... " 65
Gouge ..... " 80
Spoon ..... " 80
Countersink ..... " 1 00
Reamer.
Jenning's Square ..... " 2 50
Standard Square ..... " 75
German Octagon ..... " 75
Screw Driver.
No. 7 Common ..... " 50
No. 1 Triumph ..... " 1 25
No. 2 " ..... " 1 —
No. 340 Shepardson's. " — —
No. 1 Smith's ..... " — —

BLACKING, STOVE. (See Polish).

BLADES, SAW.

Butchers'.
Standard, ⅞ & 1¼-in.....40%
Cleck Spring.....40%
Star.....15%
Ceil.....each, $1 50
Hack.
Disston's.....25&5%
Flexible.....33⅓&5%
Star.....20&5%
Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....60&10%
Steel.....50%
Tackle.
Iron Strapped.....70%
Com. Steel.....60%

BOARDS. (New List)

Stove.....50&10%
Wash.
Globe, single.....per doz. $2 50
Globe, double..... " 3 25
Peace Maker..... " 3 00
Crystal Glass..... " 4 00
Brass King..... " 4 00
Nickel Plate..... " 4 15

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated.. " 1 10
No. N30, nickel plat'd. " 1 20
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, etc.
Carriage, ⅜x6 and sizes smaller and shorter.....70&10%
Carriage, sizes larger and longer than ⅜x6.....60&5%
Machine, ⅜x6 add sizes smaller and shorter.....70&10%
Machine, sizes larger and longer than ⅜x⅜x4.....60&5%
Elevator.....50-10&5%
Plow.....60&10%
Stove.....80&10%
Tire.....75%
Wagon Box Strap.....70%
Mortis, Door.
Gem, iron.....60%
Gem, bronze plated.....20%
Barrel.
Cast.....60%
Wrought.....
Wrought, bronzed.....50%
Flush.
Wrought.....50&10%
Spring.
Wrought.....
Wrought, heavy.....
Square.
Cast.....50&10%
Wrought.....

BORERS.

Angular.
Miller's Falls.....per doz. $13 00
Bung.
Dos.
Enterprise Mfg. Co 's No 1... $14 00
" " " No 2.. 16 50

BOXES

Mail, No..... 1 2 16
Per doz.....$3.50 5.00 17.50
Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's.....each, $1 50

BRACES.

Barber's.....50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108..... $3 50
" No. 08..... 2 75
" No. 010..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1, per doz. $9 00
" No. 2, " 9 60
Shelf.
Cast Iron, bronzed.....50-10&5%
Clover Wrought Steel.....70&10%
Clover Folding.....70%

BROILERS.

Wire..... 70%
No. Cwron, Self-basting, 20dez .. $2 50

BUCKETS.

Pump, Rubber.
Wychoff.....per gro. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75
Well.
Galv'd Qts..... 10 12 14
Per doz.....$2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 4 00
" " swivel, " 5 10

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....30%
Tinners' Iron Burrs only.....65&5%

BUTTS.

Cast Iron.....70&5%
Wrought Brass (New List).....40%
Wrought Steel, Bright.
Wrought Steel, Japanned.
Nos. 731 and - .....70&10%

CALIPERS.

Double.....65&5%
Inside and Outside.....65&5%
Wing.....70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M..... $2 75
Toe.
Shoenberger.....per lb 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons..... 20 30 40
Each..... $4.25 $5.00 $6.25
Milk.
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz.....$26.00 $27.00 $29.00
Chicago Pattern.
Nos..... 105 106 110
Per doz.....$19.00 $21.50 $23.00
Iowa Pattern.
Nos..... 408 410
Per doz..... $23.50 $24.50
New Elgin Pattern.
Nos 705 708 710
Per doz.....$25.00 $27.00 $28.00
Burn Pattern
Nos..... 700 701
Gals..... 8 10
Price..... $2.40 $2.65

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each, $2 85
Diamond, Sling..... " 6 50
Myers' Imperial ..... " 3 85
Myers' Clover Leaf..... " 4 00

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed.....60&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll's, No. C.....per doz. $4 25
Wildermuth's,.
Nos..... 1 2 3
Per doz.....$5.60 $5.75 $6.25
Nos..... 4 5 6
Per dos.....$6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs, $5 75
With Covert Snaps. " 5 00
With Slide..... " 3 25
Without Slide..... " 2 85
Bright Ox Chains.
⅜-in. $7.25; ½-in. $6.45 per 100 lbs.

Cable Coil Chain,
Inch..... 5/16 ⅜ 7/16 ½
Per 100 lbs.$10.80 $8.00 $7.00 $6.20
Inch..... 7/16 ½ ⅝ ¾
Per 100 lbs.$6.00 $5.90 $5.75 $5.65
Inch..... ⅞ 1 1¼
Per 100 lbs.....$5.55 $5.55 $5.65
Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil.
Cow Tie Chains.
American, 2 toggle.....50&5%
" toggle and snap...50&5%
" open and closed ring.....50&5%
Halter Chains.
American, new list.....33⅓%
German.....60%
Niagara, new list 40%
Brown's, " 40%
Picture Chains.
Light Brass, 3 ft.....per doz. $0 65
Heavy Brass, 3 ft .... " 1 00
Pump Chain
Galvanized, per 100 lbs.....$5 50
Safety Chain.
Brass.....60%
Special Steel Loading Chain.
Inch..... ½ 9/16 5/8
Per 100 lbs.....$16.00 $13.50 $12.50
Stretcher Chains.
7/16-in. $8.50; ½-in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's.....70&5%
Trace Chains.
Western Standard.
0— 0-2.....per pair 30c
0— 2-3..... " 34c
0— 3-3..... " 33c
0—10-2..... " 35c
7 — 8-2..... " 35c
7 —10-2..... " 42c
7 —10-1..... " 43c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 3c " for Twist Link.
Wagon Stay Chains.
Inch..... ½ 9/16 ⅝
Per 100 lbs.....$6.50 $6.60 $6.50

CHALK, CARPENTERS'.

Blue.....per gro. 75c
Red..... " 65c
White..... " 55c
Common White School Crayon..... " 8c

CHARCOAL.

In bags..... per bag 90c

CHECKS, DOOR.

Blount.....33⅓%
Sargent's.....33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box.
Inches..... 10 12 14
Round per dos....$2.10 $2.25 $2.75
Flat " ... 2.85 3.60 4.20
Cold.
Good quality, ⅞ in. and larger.....per lb. .12c
Smaller size per dos.....
Socket, Framing and Firmer.
Clover.....75&10%
Tanged, Firmer.
With handles..... 30&5%
Choppers, See Cutters, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood,
Gal..... 5 7 10
Each.....$3.90 $4.60 $4.85
Belle, Barrel.....65&7½%
Common Dash, Gal. 4 5 6
Per dos..... $7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each.....$3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....30%
Carpenters'.
Steel Bar.....25%
Hose.
Sherman's, brass, ⅝-in., per dos.. 42c
Double, brass, ⅝-in., " 90c
Saw Filers.
Disston's list, $30.00.....30%
Stearns', No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1, $6.00; No. 3 $7.50.

CLAWS, TACK.

Cast, wood hdle..... per doz.45@60c
Forged steel, wood hdle " $0.80
Solid steel..... " 1 00
Giant..... " 50

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%
Pot.
Wire.....per doz. $0 55
Side-Walk.
Steel.....per doz. $3 25
XLCR .....65&5%

CLEAVERS

Family.
Griffin, Inch..... 6 7 8
Per dos.....$5.50 $6.75 $6.25
Royal.....per dos. 2 25
Butchers.
Plumbs.....25%

CLEVISES

Malleable.....5½c lb.

CLIPPERS.

Bolt.....$1.90@4.75

CLIPS.

Axle.....65&5%
Damper.
Standard.....per doz. 65c
Troy..... " 39c
Hame..... " 17

CLOTH.

Emery.
Star.....50%
B. & A.....50%
Hardware Wire—full rolls (100 ft.)
2 to 3 incl., Galv.—in full roll... 2 75
4 and 5..... " .. 3 00
6..... " .. 3 25
7 and 8..... " .. 3 75
Screen Wire.
12 mesh, painted, per 100 sq. ft.. 1 35

COCKS AND FAUCETS.

Compression Plain Bibbs...60, 10&5%
Lever Bibb Cocks.....60, 10&5%
Compression Hose Bibbs . 50—10&5%
Telegraph Faucets (new list)..50—5%
Racking Cocks (new list)...60, 10&5%
Compression Lock C'ks(new list).70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per dos....$0 85
Milk Can Faucets, per dos..$2.60-4.20
Petroleum Faucets .....75&5%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin..per gro.$1.90 $2.40 $3.50
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass" 3.00 5.50 4.25

COMBS, CURRY.

Nos... 000 11 15 20 80 108
Per
Dos..$.37 .60 1.90 .90 1.15 .80
Nos... 290 320 390 522 620 1400
Per
Dos.$1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

Carpenters'.....60—10—10%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 30c
1½ lb.....31c 2 lb... " 29c
3 lb and larger..... " 26c

CORD.

Picture
White Wire (new list) .....85&10%
Sash.
Monarch Braided Flax...per lb
Silver Lake, white, 7-32 in. "
Silver Lake, white, 8-32 in. "
Keystone.....8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&20%

COUPLINGS, HOSE.

Brass.....per dos. $
Brass Plated..... " 85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine....per dos.$[illegible]

CRAYONS—See Chalk.

CROW BARS.

inch or Wedge Point.....per lb 3½c

CUTTERS.

Glass.
Red Devil.....45%
Smith & Hemenway Co.....50%
Woodward.....40%
Meat.
Enterprise, Nos. 5, 10, 12, 22, 32 and 42.....25%
No. 202, list, $1.50 ea.....40&7½%
Pipe.
Stanwoods. No.... 1 2 3
Each.....$0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife Slaw..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Jewel.....50&10%
American.....50%

DIES AND STOCKS.

Discount.....40%
King's, Little Giant.....33⅓%

DIGGERS.

Post Hole.
Acme.....per doz. $9 25
Atlas..... " 9 00
Eureka..... " 7 50
Hercules..... " 10 25
Iwan's Split Handle.. " 7 50
Iwan's Perfection.... " 9 00
Iwan's Hercules pattern " 10 00
Ryan's..... " 17 00
See also Augers—Post Hole.
Dividers, Wing.....65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel, painted...per doz. $7 93
1⅛ in. 4-panel, painted... " 9 50
1⅛ in. 3-panel, natural pine, fancy..... " 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....60&10%
Blacksmith's Twist.....60%
Breast.
Fray's No. 9.....each, $1 75
Millers Falls No. 12..... " 2 10
Hand.
Goodell's Automatic.
Nos..... 01 03 3 20
Per doz.. $7.75 $12 50 $12.50 $11.00
Goodell's Single Gear. per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's.....per doz. 16 50
Bit Stock.
Standard List..60&5%@60%@10

DRIVERS, SCREW.

Standard.....65&10%
Lock Ferrule.....60%
Champion.....40&10%
Champion Patter.....70%
Clark's Interchangeable.....30%
Edison.....60%
Reed's Lightning.....45&5%
Goodell's Spiral.....50, 10, 5&2½%
Yankee Ratchet.....50%
" " Spiral.....50&10%
Smith & Hemenway Co.....40&5%

EAVES TROUGH, GALVANIZED.

Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz..$0.75 $0.85 $1.20
Plan'd, " 1.80 2.00 2.65
Corrugated Conductor.
Discount.....75&10%
Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz..$0.8' $1.00 $1.50
Pol'd, " .. 1.40 1.65 2.25
Plan'd, " .. 2.15 2.65 3.40
Four-Piece Stove.
Inches..... 5 6 7
Smooth, per doz..$0.60 $0.65 $0.95
Planished, " .. 1.40 1 70 2.30

EMERY CLOTH—See Cloth.

EMERY TURKISH.

Size .....5-lb. pkgs, ½ kegs, kegs.
No 00 to 150, per lb.. 5c 4c 4c
Flour..... " ... 5c 3c 3c

ENAMEL, IRON.

A-B Iron Enamel, 3 doz. case, ...per gro., 15 00
Peerless..... 1 25

EXTRACTORS, PIG.

See Forceps, Pig

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5%
Hooks and—
Brass.....60&10%
Iron.....70%

FASTENERS, STORM SASH.

Schroeder's.....per doz. $0.85
Sensible..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta.....70&10%
Kearney & Foot.....75&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superio .....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel New List.....65&10%
Wood, 4-tines, per doz.....$5 00
Coal, Coke, Cottonseed.....30%
Hay.
2-tine.....60%
3 " .....60&5%
4 " .....60&10%
Digging.....65&5%
Scoop.....30%
Header.
3-tine.....60&5%
4 " .....60&5%
Manure.
4-tine 60%
Ore.....40%
Spading.

FRAMES.

Hack Saw.
Union.....per doz. $5 75
Jenning's adj..... " 7 50
Cast..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each...$1.10 1.30 1.50 1.80 2 30
Qts..... 8 10 12 15
Each.....$2.05 3.80 4.50 5.20

GAUGES

Butt and Rabbet.
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc.....
.....50&10%
Saw.
Wire.
Disston's.....25%

GIMLETS.

Discount.....35@40%

GLASS, WINDOW.

Single..... 90&20%
Double.....90&25%

GLASSES, LEVEL.

GLUE.

Bulk.
B Amber.....per lb. 12 c
A White..... " 15 c
H. S. Amber..... " 16½c
Liquid.
Army & Navy.....40%
Le Page's—
List "A".....37½%
List "B".....33⅓%
List "C".....25%

GOODS.

Bright Wire.....90%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gro. $5 50
Frazer's..... 9 50
Hub Lightning..... 5 25
Paragon..... 6 75
Wood Pails.
Frazer's, 15 lb. 50c; 25 lb. $1.30 each.
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross.....$9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....33⅓%

GRINDSTONES.

Family.
Inches..... 7 8 9
Per doz.....$6.25 9.00 10.50
Loose.
Per ton.....$20 00@$21 00
Mounted.
Ball Bearing..... 1 2 3
Each.....$2.15 3.00 2.85
Common Bearing 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 10
Peg.
Common..... " 22
Patent, plain top..... " 47
Patent, leather top... " 52
Sewing.
Common..... " 22
Patent..... " 52

HALTERS.

Jute Rope.....per doz. $1 10
Sisal Rope..... " 1 85
Web..... " 2 00
Leather, rope tie..... " 8 50
Leather, leather tie..... " 11 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs.....60&5%
Engineers'.
Plumbs.....60&5%
Farriers'.
Plumbs.....40&10%
Machinists'.
Plumbs.....60&5%
Nail.
Plumbs.....40&7½%
Quaker City.....per doz. $3 50
Cast..... " 1 15
Maydole's.....30&5%
Riveting.
Plumbs.....40&12½%
Shoe.
Cast.....per doz. $0 75
Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid..... " 1 55
Magnetic..... 1 2 3
Per doz.....$0.70 .80 1.00
Magazine.. .....per doz. 4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs .....60&5%
5 lbs. and over.....50&10%
Masons'.
Single and Double Face.....50&5%

HANDLES.

Auger.
Common Assorted....per doz. $0 38
Peck's Adjustable.... " 2 10
Ives' Adjustable.....per set, 1 35
Axe.....60%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged, Firmer, Assorted, 29c; Large, 33c per doz.
Applewood, Socket, Firmer, Assorted .....per doz $0 24
Coal Pick.....50&10%
Drifting Pick.....50&10%
File, assorted, 13c; Large, 16c per doz.
Hammer.
Adze Eye.....per doz. $0 40
Blacksmiths'..... " 40c@70c
Machinists'..... " 45c@70c
Hatchet..... " 40
Hay and Manure Fork.....30%
Hoe and Rake.....30%
Plain.....per doz. $0 75
Varnished..... " 80
Screw Driver.
Assorted..... " 37
Large..... " 40
Shovel and Spade.....33⅓%

HANGERS.

Barn Door.
Nansen.....60&10%
Matchless.....70&10%
Storm King.....60%
World's Best.....50%
Wagner's Adjustable.....70&10%
Warehouse.....60%
Conductor P.
Griffin.....70&10%
Iwan's Perfection.....50%
Eave Trough.
Baker's.....per gro. $2 35
Imperial.....20%
Wire.....33⅓%
Parlor Door.
Acme.....per set, $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
Lane's New Model.... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5%

HASPS.

Hinge, Wrought.....40%
With Staples—See Staples.

HATCHETS.

Crown.....60-10&5%
Cast Claw.....per doz. $1 10@1 35
Cast Shingling.... " $0 85@1 10
Germantown.....30%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wensleman's No. 1.....per doz. $9 00
Wensleman's No. 2..... " 9 00

HINGES.

Blind.
Clark's Gravity ... per doz. sets, 95c
Parker's.....65%
Shepherd's Noiseless, for Wood Casing.....per doz $1 65
Gate.
Clark's..... 1 2 3
Hgs & Ltch.. doz. $2.50 2.90 4.00
Hinges only... " 1.90 2.20
Latches only . " .70 .75
Knuckle.....per doz prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 50
Spring.
American.....20%
Chicago.....25&5%
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable.....per gro. $11
Matchless.....30%
New Idea.....per gro. $8 00
Oxford.....20%
Wrought Iron
New Lists .....
McKinney
Light Strap Hinges.....60%
Heavy Strap Hinges.....65%
Light T Hinges.....55%
Heavy T Hinges.....45%
Extra Heavy T Hinges.....60%
Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $3 75
14 to 20 in..... " " 3 65
22 to 36 in..... " " 3 40
Screw Hook and Eye.
½ in.....per 100 lbs. $6 75
⅝ in..... " " 7 75
¾ in..... " " 9 75

HOES

Garden .....70&10%
Grub.
Extra.....70%
Hazel.....per doz. $5 00
Ladies' and Boys'.....75%
Mortar.....75&10%
Planter's Eye.....62½%
Weed.....75&15%

HOLLOW WARE—See Ware.

HOOKS.

And Eyes.
Brass.....50&10%
Iron.....65&10%
Awning.....per gro. $1 00
Belt.
Brown's.....70&5%
Jones'.....65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's..per doz. $2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle.per doz. $7 00
Chain.
Inch..... ¼&5/16 ⅜ 7/16 ½
Per 100...$7.00-8.10 9.75 11.50 12.00
Clothes Lines.
Japanned .....per doz 22c@24c
Galvanized..... " 40c
Coat and Hat
Cast Iron . . . . per gro. 75c@$1 50
Gem Wire.....70%
Conductor.
Malleable.....25%
Wrought.....20%
Corn.
Common, unpolished, per doz. $1 50
Little Giant..... " 3 25
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 2 75
Hammock.
With plate.....per doz. 50
With screw..... " 45
Lambrequin, or Drapery, per gro. .21c
Picture.....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring .....per lb. 5½c

HOOPS, TUB.

Elastic . . . per case of 2 doz.... $1 50

HOSE, GARDEN.

		Coupled, per ft.
Heron, 3 ply-½" guar. press	55 lbs.	7½c
Crane.. " " "	75 "	8½c
Falcon " " "	95 "	9½c
Eagle " " "	120 "	10½c
Condor " " "	150 "	11½c
High Test " " "	200 "	12½c

COTTON COV. RUBBER HOSE.

High Grade-½"-guar. press.	400 lbs.	11½
Special " " "	300 "	9½c
Leader " " "	100 "	7½c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.....$2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro.....$5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro.....$3.50 9.00 24.50
Nos..... 60 50 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's.
No..... 1 63 200 400
Per doz.....$0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 .50 1.25 1.25
Nos..... A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals.—First column.

IRONS.

Curling.
X.....per doz. $0 40
Y..... " 50
Z..... " 58
Jewel..... " 85
Imperial..... " 1 00
Pinking..... " 70
Plane.
Wood Bench.....20&5%
Sad.
Charcoal.....per doz.$11 00
Common, polished, per 100 lb. 4 50
Common, nickel plated, 5 25
Chinese Polishing.....per doz. 7 40
Laundry, No. 1..... " 5 75
Laundry, No. 2..... " 6 25
Mrs. Pott's,
No. 50 J. Enterprise, per set 93
No. 55 J. " " " 90
No. 50 T. " " 1 00
No. 55 T. " " 96
Tailors' Sad.....per lb. 5½
Tailors' Geese..... " 5½
Tuyere.
Single Duck Nest.....per doz $5 25
Double Duck Nest . . " 6 25
Sutton.....each.... 2 00

JACKS.

Locomotive.....70%
Wagon.
Oliver,
Nos..... 0 00
Each.....$0.60 $0.90
Standard.
Nos..... 1 2
Each.....$0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.90

KETTLES.

Brass.....15%
Cauldron.....40&5%
Copper..... per lb., 27c
Maslin.....65%
Sugar.....50%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, dos.$3 85
California..... 3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard.....70%
Adjustable.....15%
Barton's Carpenters' 10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge...doz. $10 50
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 00
Iwan's, Sickle Edge..... " 9 50
Iwan's, Impv'd Serrated . " 10 00
Lightn'g, Holt's Genuine. " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point.. " 8 50
Hedge.
Challenge.....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single..... " 40
Common, Double..... " 50
Streeter, 4-Blade..... " 1 30
Streeter, 6-Blade..... " 2 00
Putty.
Common.....per doz. $0 60@1 00
Lander'r..... " 1 40@1 75
Scraping.
Beech Handle..... 75@1 00
Lander's..... 5 25@6 00

KNOBS.

Door.
Mineral.....per doz. $0 80
Porcelain..... " 90
Jet..... " 90

LADDERS.

Common Long.
Per ft.....9c@14c
Extension.
Per ft.....14c
Step.
Common, per ft.....7½c
Common, with Shelf, add 10c.
Keystone.....15c
Triumph, per ft.....20c

LANTERNS.

Bull's Eye Police.
3 -in. Flash Light....per doz. $6 00
2½-in. Regular..... " 4 90
3 -in. Regular..... " 5 50
Tubular.
Dietz & Hanes' . . ..net prices.

LEADERS, CATTLE.

Nos..... 1 2 3
Per doz..... $0 55 .70 2.75

LEATHER, LACE.

Cut.....33⅓%
Sides.
Ex. Quality ..... per sq. ft., 27

LEATHERS, PUMP.

Valve and Plunger.....10%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
Alaska, Nickeled. " 5 00
Transom.
Payson's.....80%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos.... 4 6 7 8 9
Gross...$1.50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Mansons', in 100-ft. hanks...dos. 80c
Clothes.
60-ft. Jute.....per doz. $0 95
72-ft. Jute..... " 1 15
60-ft. Sisal..... " 1 40
72-ft. Sisal..... " 2 15
50-ft. Cotton..... " 1 15
40-ft. Braided Cotton. " 25

LINING, STOVE.

In Bricks .....per crate, 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular.....per doz.	3 00	4 40
Upright..... "	2 60	4 00
Leather Riveting.		
Chicago, Pomeroy....per doz.		$9 00
Excelsior..... "		2 00
Handy..... "		2 00
Little Giant..... "		3 00
Pony, Pomeroy..... "		7 20
Washing.		
Winner.....per doz.		54 00
Keystone..... "		54 00
U. S. Steel..... "		60 00
Advance, f.o.b.Chicago "		24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small....per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 2 25
" Lignumvitæ... " 4 00
Square Hickory..... " 2 25
" Lignumvitæ... " 4 50
Tinners'.
Applewood..... " 1 70
Hickory..... " 1.00@1 50
Hickory Sheet Iron... " 1 50

MATS

Door
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
Stove.
No. 2.....per gro. $2 25
No. 1..... " 3 50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1 10
No. 2 Asbestos Toasters, with ring.....per doz. 60

MATTOCKS.

Plumbs.....65&10%
Extra.....60%

MAULS.

Iron, lbs.....	10	13	16	18
Per doz....	$4.00	4.50	5.25	5.60
Wood face, lbs.....	10	12	14	
Per doz.....	$5.00	5.50	6.00	

Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

	¼ pk.	1 pk.	bu.
Galvanized, per doz.	$2.25	3.00	3.85
Japanned.. "	1.75	2.45	3.15

MICA.

First Quality.....40&5%
Second Quality.....50&5%

MILLS, COFFEE.

Enterprise.....25%
Parker.....40-12½&2½%
Arcade.....40-12½&2½%

MITRE BOXES.

See Boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1½ 2
Per dozen....$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Gladiator—B. B.
Inches..... 16 18 20
Each..... 6.50 7.25 8.00
King Universal—B. B.
Each..... 5.25 5.75 6.00
Inches..... 14 16 18
Big Giant..... 3.50 3.90 4.25
Little Giant..... 2.50 2.65 2.75
Philadelphia.
All Styles, except A & E, 60, 10&10%
Style A.....50&10%
Style E, High Wheel....60, 10&10%
Drexels.....40%
All Day .....Net Price

NAILS.

Cut Steel .....rates, $2 50
Cut Iron..... 2 60
Wire.
Small Lots..... $2 28
Carload Lots..... 2 18
Cement Coated..... 2 30
Horse Shoe.
Ausable.....55&5%
Capewell.....15%
Perfect.....55&5%
Putnam.....20&5%
Star.....35&5%
Clover Leaf .....per lb., net, 10½c
Picture.
Brass Heads.....25%
Brads.....85%
Furniture.....15%

NAIL PULLERS.

See Pullers.

NAIL SETS. .

See Sets.

NETTING, POULTRY.

Galvanized beforeweaving .60,10&2½%
Galvanized after weaving.....80&7½%
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Inches 5½ 6
Per dozen..... $4.00 4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co....60%
Hoof.
Heller's.....40&10%
V. & B.....55&5%

NOZZLES.

Hose.
Genuine Gem.....per dos. $3 00
Magic..... " 3 00
Mystic..... " 3 00

NUTS, HOT PRESSED.

Square Blank.
In ½ 9/16 ⅝ ¾ 7/8 1 1⅛
lb 9½c 8c 6½c 5½c 5½c 5c 4½c
Square Tapped.
In. ½ 9/16 ⅝ ¾ 7/8 1 1⅛
lb. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5-lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60%
Zinc.....60%
Engineers'.
Cannon.....55%
Tin .....per doz. $2 00@$2 25
Machine.
Common.....per doz. $0 50
Copper Plated Steel... " 1 00
Malleable Iron.....60, 10&5%
Japanned.....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat.....per doz. $2.85 3.60 4.15
Round.... " 2.10 2.25 2.75
Can.
Delmonico .....per dos $1 30
Never Slip..... " 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. 11 00
Economy..... " 4 65
Family..... " 9 75

PADLOCKS.

Standard Wrought.....75&5%
Champion.....50%
Eureka.....40, 10&5%
Yale.....60&5%

PAILS.

Cream.
14-qt , without gauge, per dos. $2 50
20-qt., " " " 3 00
20-qt., with gauge.... " 3 50
Sap.
10-qt., Galvanized, per 100....$13 00
12-qt., " " 14 50
14-qt., " " 16 25
16-qt., " " 17 75
10-qt.,IC Tin..... " 10 25
12-qt., " .... " 11 75
14-qt., " .... " 13 00
10-qt.,IX Tin..... " 12 75
12-qt., " .... " 16 00
14-qt., " .... " 17 00
Stock.
Galv'd, qts. 14 16 18 20
Per doz..... $3.75 4.00 4.75 5.25
Water.
Galvanized... qts. 10 12 14
Per doz..... $1.95 2.20 2.45
Wood.
Cable, 2-Hoop.....per dos. $1 70
Cable, 3-Hoop..... " 1 90
Cedar, 2-Hoop..... " 2 85
Standard, 2-Hoop.... " 1 60
Standard, 3-Hoop.... " 1 80

PANS

Dripping.....60&5%
Fry
Common .....75&10%
Acme 70%
Roasting.
Paxton,
Nos..... 1 2 3 4
Per doz.... $4.75 5.75 6.50 7.50
Neverburn . . 4.00 4.50 5.50 6.00
Savory, No. 200.....per doz. $8.00

PAPER.

Building.
Plain.....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 05
No. 20, Red Rosin....per roll. 40
No. 30, Red Rosin.... " 55
Sand and Emery.
Star ..... low list, 50%
B. & A.....50%
Wrapping.
Drab Fiber.....per lb. $0 00
Rag..... " 0 00

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable..... " 0 00
White Mountain..... " 5 00
Reading..... " 7 00
Potato.
Goodsell's Saratoga, 10½ in., doz. 6 50
Goodsell's Saratoga, 5 in., doz. 5 50

PICKS.

Adze Eye Ore.....70%
Drifting and Poll Picks.....70%
Plumbs, Railroad.....70%
Surface.....70%

PINCERS.

Carpenters', cast steel,
Inches..... 6 8 10 12
Per doz..... $2.00 2.60 2.95 3.75
Blacksmiths'.....45%
Heller's.....40%

PINS.

Clothes.
Common.....per box of 5 gro $0 52
Hoyt's..... " " 31
U. S..... " " 70
Picket.
Fluted, 15-in.....per doz. $0 70
Fluted, 21-in..... " 1 60
Spiral..... " 1 90

PIPE.

Conductor.

	Gal. Steel	Charcoal
L. C. L. to Dealers:—		
Eastern	70&10%	50&10&2½%
Pittsburgh	75&10&5%	60%
Central	75&10%	60%
Northwestern	75&7½%	60%
Western	70&12½%	50&12½%
Tennessee	70&10%	50&12½%
Southern	70%	50&12½%
Southwestern	70%	50&5%

Terms 60 days; 2% Cash 10 days.
Factory shipments generally delivered.

Lead.
Full coils.....per lb. 7½c
Cut coils..... " 7½c
Stove
Acme—Inches.... 5 6 7
Smooth, per jt... 8½c 9½c 10½c
Planished, " 22 c 23 c 43 c
Peerless—Smooth, 7½c 8 c 9½c
Polished.....14½c 15½c 15 c
Planished.....28 c 31 c 35½c
Made-up—Inches.. 5 6 7
Smooth..... 7½c 8 c 9½c
7 to 6 in. Smooth Tapers, pr jt...13c
6 in. Smooth T's..... " 27c
7 to 6 in. Planished Tapers.....45c
Yale Patent Lock Pipe—Stove.

Blue Steel:	5"	6"	7"	7" to 6"
	Cents			
Battle Axe Blue	7	7½	9½	10½
Can't Slip "	7½	8½	10	11
Peerless "	7½	9½	10	11
Duplex "	10	11	13	14
Yale, Rus. Fin	15	16	17	18
Duplex Planished	29	31	37	38
Galvano, Gal	15	16	17	18

If wanted made up, add per joint or grooved, 1c; riveted, 1½c. Grating made-up pipe extra.
Wrought Iron Gas Pipe.
⅛@½-in., black.....discount, 60%
⅛@½-in., black..... " 60,10&5%
¾-in. to 6-in., black... " 70%
7-in. to 12-in., black... " 62½%
⅛@½-in., galvanized.... " 42%
⅛@¼-in., galvanized.... " 50%
⅜-in. to 6-in., galvan'd " 57½%
7-in. to 12-in., galvan'd " 45%

PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench.....25&5%

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—Ins.. 4½ 6 8 10
Per doz..... $2.75 3.35 4.15 5.15
Button's Pattern.
Inches..... 4½ 6 8 10
Per doz..... $2.25 2.75 3.25 4.25
Cutting.
Bernard's.....30%
Lodi.....50%
End and Diagonal Cutting
Swedish Side.....70%
Utica Drop Forge & Tool Co....50%
Fencing.
Farmers' Choice.....per doz. $8 00
Russell's..... " 8 25
Flat and Round Nose.
Bernard's.....30%
German.....65%
Lodi.....50%
Paragon.....50%
Gas—Inches.. 7 8 10 12
Doz..... $3.00 3.50 4.50 5.50

Tinners'.
Hollow.....40%
Solid.....each, 5½c

PLUMBS AND LEVELS

Common.....60&10&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

POINTS

Drive Well Points.....75&5%

POKERS, STOVE.

Wr't Steel, str't or bent, per doz. $0 55
Wr't Steel, wood hand'ls " 80
Nickel Plated, coil hand'ls " 65

POKES, ANIMAL.

Cracker Jack, wr't steel, per doz. $4 50

POLISH.

Metal.
A-B Oil Metal Polish, 4-oz. bottles, 3 doz. case, per gr. $0 00
1-gal. can..... 90
White Silk, half pints, per doz. $2 00
White Silk, 6-oz. cans, per doz. 1 00
Shoe.
M. C. D.....per doz.....30c@50c
F. C. O..... " 40c
T M..... " .55c@$1 75
Imperial.....per gro..... 5 00
Stove.
A-B Polishes.
Liquid Stove Polish.
3 doz. in case..... $2 25
6 " " ..... gr.. 9 00
Fireproof Stove Polish, 3 and 6 doz. in case.....gr.. 12 00
Liquid Waterproof Stove Polish, 10-oz. cans, per gro.. 12 00
Oil Paste Polish.
6-oz. cans, 3 doz. case..... 2 25
1-lb. " 3 " " 3 75
5-lb. " per can..... 50
Dry Powdered Stove Polish.
5-lb. box..... 75
100-lb. bbls.....per lb. 12
Powder Polish. 3 doz. 6 do. 12 doz.
$2.25 $4.50 $9 00
Water Paste Stove Polish, ½-lb. boxes, 3 doz. case..per gro., 12 00
Black Eagle, 1-lb. cans, pr gr, $15 00
Black Silk—
5-lb. pail..... $0 70
Paste, 5-oz. cans....per doz. 75
Paste, ½-lb. cans.... " 1 05
Liquid, ½-pt. cans... " 1 05
Liquid, 6-oz. cans... " 75
Black Jack, ½-lb. cans. " 9 25
Dixon's Carb. of Iron. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1-qt. per doz. $1 05
Square, 1½-qt..... " 1 15
Square, 2-qt..... " 1 30
4-qt..... " 3 75

POTS, FIRE.

Clayton & Lambert's, each, $4 75@6 25
Gate City.....each, 6 25
Gem.....each, $3 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25%

PRIMERS

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 50%

PULLERS.

Cork.
Daisy.....each, $3 10
Phœnix..... " 1 40
Quick and Easy..... " 2 70
Nail.
Giant.....per doz. 10 50
Giant Pattern..... " 6 00
Jumbo..... " 9 00
Tack—Giant..... " 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5-in.....per doz. $1 75
Wood Wheel, 6-in.... " 1 75
Wood Wheel, 6-in., pass knot, ...per doz. 2 15
Hot House—Jap'd.....50&10%
Screw—Jap'd.....60%
Side—Jap'd.....50&10%
Sash.
Common.....per doz. $0 20
Common-Sense, 2-in.. " 20
Empire Pattern, 2-in.. " 20
Ideal..... " 20
Steel..... " 25

PUMPS.

Pitcher Spout.
Nos..... 1 2 3 4
Each..... $1.00 1.15 1.30 1 70
Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 5 40
Cyclone, copper..... " 6 75
Daisy..... " 9 00
Little Giant.....each.... 2 25

PUNCHES.

Conductors'.
No 22.....per doz $2 25
Machine.....per lb 19
Saddlers'.
Common.....per doz 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Matchless, 1-in..... 9 c
Matchless, 1½-in..... 8½c
Storm King..... 4 c
Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron...per ft. 5½c

RAKES.

Coal or Wood.....per doz. $5 20
Garden.
Steel.....70%
Steel, bow.....70%
Malleable iron, heavy.....60&10%
Hay.
Wood.....$1 50@$2 00
Lawn—Wood.
XXX.....per doz. $3 00
Automatic..... " 5 25
Lawn Queen..... " 2 75
Jumbo, 36 teeth..... " 5 25

RASPS—See Files.

RAZORS.

Bo-ras-ic.....50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.
Black and White Japanned, Reg. and Border.....70&10%
On Face.....75&10%

RINGS.

Bull.
Copper.....2½ in. 3in.
Per doz.....$1 10 $1 40
Rea's Improved Self-Piercing copper, pr doz 2 00 ....
Steel, per doz..... 85 95
Nickel plated..... 1 35 ....
and Ringers—Hog.
Blair's Rings.....per doz. $0 56
Blair's Ringers..... " 75
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers.... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes.... " 47
Major Rings..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers.... " 80
Fruit Jar.
White.....per lb.....30c
Key.
Split, round.....per doz. $0 17
Split, square..... " 32
Ball, round..... " 32

RIVETS.

and Burrs.
Copper Belt.....40%
Coppered Iron.....60&10&5%
Tinners'.....60&10%
Hame.....per lb. $0 10
Slotted Clinch per doz 40c@45c
Tubular
Nos 1 and 2 assorted sizes, doz, 45c

RIVET SETS

See Sets.

ROPE.

Cotton.
¼, 5-16 in. Com on reels..per lb. 11½c
¼, 5-16 in Com. in coils.. " 12 c
¼, 5-16 Imperial in coils.. " 21 c
Sisal.
1st Quality.....12 c
Hardware Grade, rates, per lb...10 c
Pure Manila.
1st quality.....per lb. 15½c
Hardware Grade, rates... " 14½c

RULES.

Boxwood.....[illegible]
Ivory.....

SASH WEIGHTS.

See Weights.

SAWS.

Buck.
Disston's.....35%
Jackson's.....35%
Butchers'.
Disston's.....30%
Circular.
Disston's.....50%
Hiles'.....60&10%
Compass.
Common.....per doz $1 35@1 60
Disston's.....%25
Cross-Cut
Disston's.....45%
Dehorning.
Disston's.....per doz. $5 75
Hack.
Disston's.....25%
Keystone.....30%
Hand and Rip.
Brown's.....30%
Disston's No. 7.....30%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list).....25%
Keystone.....30%
Enterprise, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....25%
Kitchen.
Sterling.....25%
One Man.....50%
Panel
Brown's.....30%
Disston's No. 7.....30%
Disston's No. D100.....25%
Pruning.
Brown's.....35%
Disston's.....35%
Wood
Common.....per doz. $4 50
Clover Leaf..... " 6 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

AW FRAMES.

Common, plain.....per doz. $1 25
Common, painted..... " 1 70

SCALES.

Counter.
Pelouze.....40&10%
Platform.
Osgood.....40%

SCOOPS.

Grain.
½-bu. "Hercules".....per doz. 13 70
1-bu. "Hercules"..... " 15 00

SCRAPERS.

Box.
Triangular.....per doz. $4 00
Cabinet.
Cast Steel.....per doz. 60c@75c
Road.

Cubic ft.	7	5	3
Without run's, ea.	$4.00	3.75	3.50
With runners, ea.	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in.	1	1½	1¾
	$3.50	4.00	4.75

Wood, white maple...per doz. $3 50
Hand—Wood.....10%
Hand Rail.....60&10%
Jack.....70&10&5%
Lag or Coach—all sizes, gimlet pointed.....75&5%
Saw—Centennial

Nos..	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&5%
R. H. Blued.....55%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

SCYTHES.

Be Ve Be, grass.....per doz. $8 50
Clipper, grass..... " 8 00
Clover Leaf Dutchman..... " 8 00
Honest Dutchman..... " 8 00
Be Ve Be..... " 6 00

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 32
Square, common..... " 42
Octagon, common.... " 32
No. 5, square..... " 75
Cup point, knurled... " 75
Rivet.
Farmers'.....per doz. $1 20
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz $3 50
Common Lever..... " 1 20
Disston's Monarch.... " 6 50
Disston's X Cut ..... " 12 00
German..... " 1 05
Morrill's Old Style.... " 5 00
Morrill's Pattern..... " 3 25
Leach's..... " 80
Nash's Hand..... " 3 15
Nash's X Cut..... " 4 20
Stillman's Lever..... " 1 30
Stillman's X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz $1 00
Smith & Hemenway.....20%

SHAVES, SPOKE

Iron.....per doz $1 10@1 55
Wood ..... " 2 75@4 75
Bailey's .....50&5%
Goodell's 15%

SHEARS

Pruning
Buckeye, No. 1.....per doz $5 75
Buckeye, No. 2..... " 7 40
California Pat., 9-in.. " 3 20
California Pat., 10-in.. " 4 00
Draw Cut, No. 3..... " 13 75
Draw Cut, No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 2.10 2.90 2.80
Star.....per doz $4 00
Sheep—No BBA.
Inches..... 6 6½ 7
Reg. Grip.....$11.25 11.50 12.00
Nar. Grip.,doz.... 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 .42 .70
Hatfield's.
Per set..... $0.75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.

Union.....per doz. $6 75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No 2 Woodford.....per doz. $5 50
No. 1½..... " 6 00
Ames' new list .....Discount, 12½%
Per doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye.... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, etc.
Black Diamond.....per doz. $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames, new list.....Discount, 12½%
Snow.
Per doz.....$1.65@$9.00
Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....50&10%
Enameled, White.....50&10%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $6 00
Patent Loop, Bush..... " 5 75
Patent Loop, Grass..... " 5 50

SNIPS, TINNERS'.

Clover Leaf.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.....30c 35c 40c 54c
Reliance.
Per doz ... light, $1.25; heavy, $2 50
Star.
Per doz ... light, 90c; heavy, $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1 35

SQUARES.

Steel and Iron.....70&10%
(Add for bluing, $2.50 per doz., net.)
Miter.
Try.
Try and Bevel.
Try and Miter.
Fox's.....per doz. $5 75
Winterbottom's.....70%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood.. " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
Iron Frame, glass bowl . " 2 35
Little Giant, tin'd iron . " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated ... " 4 50

STAPLES

Blind.
Barbed.....per lb ...9¼@9½c
Butter Tub..... " .....8 @8½c
Fence—less than carload.
Polished.....per 100 lbs. $2 30
Galvanized..... " 2 60
Netting.
Galvanized.....per 100 lbs. 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....60-10&10%
Extra heavy.....75&10%

STEELYARD.

Discount 25%.

STONES.

Axe.
Hindostan.....per lb 5½@7 c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz.$23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6½
Oil—Unmounted.
Arkansas Hard.....per lb $2 05
Arkansas Soft ..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Quachita..... " 38
Washita..... " 28
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End ..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated... " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz prs., $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's.....per doz. $6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per lb. $0 70
Wrought Steel.....per gro. 4 50

TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut.....90&20%
Upholsters' Wire.....90&10%
Double Pointed.....90%
Copper.....per lb. 35c
Canvas Nails.....75&5%
Cleut Nails.....75&10%
Hungarian Nails.....80%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 30c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&5%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Disston's Universal.....40%
Miniature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Ballon.....per doz. $1 25
Harper's..... " 1 35
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker ..per doz. holes $0 13
Tin Choker..... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation.. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 3 75

TROWELS.

Brick.
Clover Leaf.....30%
Brade's.....15&5%
Disston's.....30%
Rose's.....20%
Plasterers'.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each, $3 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed..... $3.00 3.85 5.50
Full Ironed..... 3.45 4.50 6.45

TUBS, WASH

Standard, Wood Ex.
Nos..... " 2 1 large
Per doz..... $5.00 6.00 7.00 9.50
Dowell.
Per doz..... 5.35 6.35 7.00 9.50
Cedar.
Per doz..... 6.10 7.10 7.90 10.80
Indurated.
Per doz..... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz..... $6.00 6.75 7.75

TWINE.

Per lb.
3-ply Cotton Wrapping 25c
4 " " " 25c
" " Extra Wrapping.....27c
4 " " " Hvy. Wrapping 25c
4 " " Wrapping on tubes....27c
3 " " " cones.....25c
4 " " " " " 25c
India Hemp, ¼-lb. balls 19c
" " ½-lb. " 18c
" " ¼-lb. " .....doz. 75c
2-ply Jute, ½-lb. " 14c
3-ply Jute, ½-lb. " 13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....9½c
Seine.
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard..... " 27 26½ 26
Staging, ½-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-p y "B" in hanks 18c
4- " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks...37c
Fodder or Lath.
130 strand.....6½c
200 strand.....—c

VISES.

Phœnix.....30%
Phœnix Oval Slide.
Inches..... 2½ 3 3½ 4½
Each..... $1.25 1.50 1.85 2.75
Parker's Parallel.....15&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....40&5%
Adams' Mechanics'.....each 2 50
Williamson's Universal.....60%

WARE.

Stow Hollow Ware.
Plain or Unground.....50%
Ground Ware.....45%
Enameled Ware.....33⅓%
Country Hollow Ware, per 100 lbs. $3 00
White Enameled Ware.
Maslin Kettles.....60&10%
Covered Ware.
Tin'd and Turn'd.....35&10%
Enameled.....45&10%
Glue Pots.
Tinned.....25%
Enameled.....30%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.

Standard O G. cast iron . . .per lb. 2½c
Wrought iron in bulk, per lb :
In. ⅛ ¼ ⅜ ½ ⅝ ¾ 1
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5-lb. boxes, per lb.:
In. ⅛ ¼ ⅜ ½ ⅝ ¾ 1
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz. $0 30
Galling.....per lb. 10½
Saw..... " 8½

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 65 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 00

WEIGHTS.

Hitching.....per lb. 2½c
Sash—f.o.b. Chicago....pr ton, 26 50

WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 30 00
Klondike Steel Tray.. " 28 00

WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 30 00
Klondike Steel Tray.. " 28 00

WHEELS.

Corundum.....70&10&5%
Emery.....75&5%
Well. Inches.. 8 10 12 14
Per doz..... $2.40 3.25 4.00 6.00

WIRE.

	Painted.	Galv'd
Barbed.		
Carloads . . per 100 lbs.	$2.33	$2.63
Less than car "	2.43	2.73
Brass.		
In coils		20%
In 1-lb. spools, new list		50%
Broom—Tinned . . .		60&10&10&10%
Cable—Same price as Barbed Wire.		
Copper.		
In coils		20&10% 33⅓%
1-lb. spools, new list		50&10%
Fence—Smooth.		
Nos. 6 to 9, An'eal'd, pr 100 lbs.	$2 30	
Nos. 6 to 9, Galv'd.. "	2 60	
Hair—New List		50%
Market.		
Bright, full bdles		70&5%
Bright, broken bdles		70%
Coppered, full bdles		70%
Coppered, broken bdles		65&10%
Tinned, full bdles		75&5%
Tinned, broken bdles		65&10%
Picture—In coils		80%@80&10%
In 5-lb. spools.....per lb.		26c
Plain—Small lots	$2 10	
Car lots	2 05	

Small spools 3c per 100 higher.

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85cnet
Always Ready.....50%
Coe's Standard.....40&10&5%
Agricultural.....75&5%
Ellis Adjustable.....25%
Malleable "S".....per lb. 08c
Malleable..... " 08c
Stillson Pipe.....70%

WRINGERS.

No. 22, Guarantee....per doz. $32 50
No. 110, Guarantee.... " 32 50
No. 110, Brighton..... " 23 50
No. 113, Bicycle..... " 31 50
No. 500, Royal..... " 32 50
No. 350, Universal..... " 28 00
No. 300, Novelty..... " 28 00
No. 310, Keystone..... " 28 00
No. 100, Rival..... " 26 50

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Berger Bros. Co., Philadelphia, Pa

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Eller Mfg. Co., Canton, O
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Furnaces—Hot Air

Bonnot Co., The Canton, Ohio
Boynton Furnace Co., Chicago, Ill
Cox Stove Co., Abram, Philadelphia, Pa
Fox Furnace Co., Elyria, Ohio
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg. Co., St. Louis, Mo
Henry & Scheible Co., Cleveland, O
Hess-Snyder Co., Massillon, Ohio
Kelsey Heating Co., Syracuse, N Y
Kruckemeyer Furnace Co., Cincinnati O
March-Brownback Stove Co., Pottstown, Pa
Monroe Fdy. & Furn. Co., Monroe, Mich
Ramsley Co., W. H., Pittsburg, Pa
Schwab, R. J. & Sons Co., Milwaukee, Wis
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa
Youngstown Furn. & Supply Co., Youngstown, O

Furnaces—Soldering

Burgess Soldering Furnace Co., Columbus, Ohio
Clayton & Lambert Mfg. Co., Detroit, Mich
Diener Mfg. Co., Geo. W., Chicago, Ill
Turner Brass Works, Sycamore, Ill

Furnace Pipe and Fittings

Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer & Bro., Co., F. Peoria, Ill
Michigan Safety Furnace Pipe Co., Detroit, Mich

Gas Stoves

Ringen Stove Co., St. Louis, Mo
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa

Generators—Acetylene

Ideal Epworth Acetylene Co., Waterloo, Iowa, & Johnstown, Penn

Hangers—Garment

Pullman Mfg. Co., Rochester, N Y

Hardware Jobbers

Clark, Quien & Morse, Peoria, Ill
Paxton & Gallagher Co., Omaha, Neb
Smith & Hemenway Co., New York, N.Y

Hardware Specialties

Paxton & Gallagher Co., Omaha, Neb
Pullman Mfg. Co, Rochester, N. Y
Richards Mfg. Co., Aurora, Ill
Smith & Hemenway Co., New York, N. Y
Taylor & Boggis Foundry Co. Cleveland, O

Heaters—Hot Water

Detroit Heating & Lighting Co., Detroit, Mich

Hinges

Griffin Mfg. Co., Erie, Pa
Lawson Mfg. Co., Chicago, Ill

Hollow Ware

Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Horse Nails

Standard Horse Nail Co., New Brighton, Penna

Horse Shoes

American Steel & Wire Co., Chicago, Ill

Hotels

Lenox Hotel Buffalo, N. Y

Ice Cream Freezers

North Bros. Mfg. Co., Philadelphia, Pa

Illustrations

Gatchel & Manning, Philadelphia, Pa

Iron Enamel

A-B Polish Co., Chicago, Ill
Black Silk Stove Polish Works, Sterling, Ill
Nickel Plate Stove Polish Co., Chicago, Ill

Kitchen Utensils

Avery Stamping Co. Cleveland, O

Ladders—Shelf

Calander, John St. Paul, Minn

Lamps

Cohn & Co., G., New York, N. Y
Thurnauer, Otto, New York, N. Y

Lawn Fence

Denning Wire & Fence Co., Cedar Rapids, Ia

Levels

Baker-McMillen Co., Akron, O

Lighting

Ideal Epworth Acetylene Co. Waterloo, Iowa and Johnstown, Penna

Lighting Systems

Detroit Heating & Lighting Co., Detroit, Mich

Lightning Rod

Electra Lightning Rod Co. Cresco, Ia
Foy, Edw. A. & Co., Cincinnati, O
Maher & Son Lightning Rod Co., Preston, Ia

Mail Boxes

Taylor & Boggis Foundry Co. Cleveland, Ohio

Mantles—Alcohol

Cohn & Co., G., New York, N. Y
Thurnauer, Otto, New York, N. Y

Metal—Perforated

Harrington & King Perforating Co., Chicago, Ill

Metal Polish

A-B Polish Co., Chicago, Ill
Black Silk Stove Polish Works Sterling, Ill
Nickle Plate Stove Polish Co., Chicago, Ill

Metal Shingles

Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Costright Metal Roofing Co., Philadelphia and Chicago
Nat'l Sheet Metal Roofing Co., Jersey City, N. J

Mica

Munsell & Co., Eugene Chicago, Ill

Miters

Whitacre, J. E. Mfg. Co., Rockford, Ill

Nails and Tacks—Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y
Hussey & Co., C. G., Pittsburg, Pa

Nuts

Columbus Bolt Works, Columbus, O

Paints and Paint Specialties

Buckeye Paint & Varn. Co., Toledo, O
Connors, Wm., Paint Mfg. Co., Troy, N. Y
Dixon, Jos. Crucible Co., Jersey City, N. J

Pencils

Dixon, Jos. Crucible Co., Jersey City N. J

Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Pipe—Furnace

Meyer Bros. Co., F. Peoria, Ill
Michigan Safety Furnace Pipe Co., The Detroit, Mich

Plungers

Berger Bros. Co., Philadelphia, Pa

Punches

Armstrong-Blum Mfg. Co., Chicago, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson, Mfg. Co., J. M., Cincinnati, O

Putty—Stove

Connors, Wm. Paint Mfg. Co., Troy, N. Y

Radiators

Kellogg-Mackay-Cameron Co., Chicago, Ill
Rochester Radiator Co., Rochester, N. Y

Rasps

Disston, Henry & Sons., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa

Razors

Smith & Hemenway Co., New York, N. Y

Registers

Ferrosteel Co., Cleveland, O
Henry & Scheible Co., Cleveland, O
Rochester Radiator Co., Rochester, N. Y
Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O

Revolving Screw Cases

American Bolt & Screw Case Co., Dayton, Ohio

Rivets

Columbus Bolt Works, Columbus, O
Hungerford, U.T., Brass & Copper Co., New York, N. Y

Roasters

Wheeling Corrugating Co., Wheeling, W. Va

Roofers' Supplies

Auld & Conger Co., Cleveland, O

Roofing—Iron and Steel

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Wheeling Corrugating Co., Wheeling, W. Va

Roofing Cement

Auld & Conger Co., Cleveland, O
Connors Paint Co., The Wm., Troy, N. Y

Roof Paint

Dixon, Jos. Crucible Co., Jersey City, N. J

Rules

Lufkin Rule Co., Saginaw, Mich

Sash Balances

Pullman Mfg. Co., Rochester, N. Y

Saw Sets and Saws

Disston, Henry & Sons, Philadelphia, Pa
Smith & Hemenway Co., New York, N. Y

Screens—Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks

Pullman Mfg. Co., Rochester, N. Y

Screws

Columbus Bolt Works, Columbus, O

Screw Drivers

North Bros. Mfg. Co., Philadelphia, Pa

Seamless Tubing—Brass & Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Shears

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson, Mfg Co., J. M., Cincinnati, O
Wagner, C. DeWitt, Cedar Rapids, Ia

Sheets—Black and Galvanized

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished

American Sheet & Tin Plate Co., Pittsburgh, Pa
Follansbee Bros., Pittsburg, Pa
Taylor Co., N. & G., Philadelphia, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

American Sheet & Tin Plate Co., Pittsburgh, Pa.
American Steel & Wire Co., Chicago, Ill
Follansbee Bros. Co., Pittsburgh, Pa

Sheet Metal Ornaments

Berger Mfg. Co., Canton, O
Foster, & Sons Co., Wm. Springfield, Ill
Friedley-Voshardt Co., Chicago, Ill
Keighley Metal Ceiling Co., Pittsburg, Pa
La Crosse Steel Roofing and Corrugating Co., La Crosse, Wis
Milwaukee Corrugating Co., Milwaukee, Wis

Shelf Boxes

Green & Co., A. H., New York, N. Y

Shelving

Warren Mfg. Co., J. D., Chicago, Ill

Shovels

Avery Stamping Co., Cleveland, O

Show Cases

Michigan Show Case Co., Detroit, Mich

Siding

Foster & Sons Co., Wm., Springfield, Ill
Milwaukee Corrugating Co., Milwaukee, Wis

Sifters

Stuber & Kuck, Peoria, Ill

Skylights

Berger Mfg. Co., Canton, O
Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O

Skylight Glazing

Weiss, H. & Co., New York, N. Y

Slate Roofing

Auld & Conger Co., Cleveland, O

Slating Nails

Hussey & Co., C. G., Pittsburg, Pa

Solderene

Solderene Co., The Boston, Mass

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Steel

American Steel & Wire Co., Chicago, Ill

Stoves and Ranges

American Beauty Stove Co., Erie, Pa
Champion Steel Range Co., Cleveland, O
Cole Mfg. Co., Chicago, Ill
Cox Stove Co., Abram, Philadelphia, Pa
Foster Stove Co., The, Ironton, O
Fox Furnace Co., Elyria, Ohio
Monitor Stove & Range Co., Cincinnati, O
Ohio Stove Co., Portsmouth, O
Paxton & Gallagher, Omaha, Neb
Sheridan Stove Mfg. Co., Quincy, Ill
Snyder & Baker Stove Works Belleville, Ill
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa.
Van, John, Range Co., Cincinnati, O

Stoves—Alcohol

Cohn & Co., G, New York, N. Y
Thurnauer, Otto, New York, N. Y

Stove Mats

Stuber & Kuck, Peoria, Ill

Stove Patterns

Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vadder Pattern Works, Troy, N. Y
Weller Pattern Co. Quincy, Ill

Stove Pipe

Hemp & Co., St. Louis, Mo

Stove Pipe Thimbles

Stuber & Kuck, Peoria, Ill

Stove Polish

A-B Polish Co., Chicago, Ill
Black Silk Stove Polish Works, Sterling, Ill
Nickel Plate Stove Polish Co., Chicago, Ill

Stove Putty

Connors Paint Mfg. Co., Wm., St. Louis, Mo
Dixon, Jos. Crucible Co., Jersey City, N. J.

Stove Repairs

American Stove Repair Works, St. Paul, Minn
Brauer, A. G., Supply Co., St. Louis, Mo
Manufacturers Stove Repair Co., Chicago, Ill
U. S. Stove Repair Co., Minneapolis, Minn

Stove Trimmings

Cleveland Nickel Works, Cleveland, O
Mooney, F. J., Brazil, Ind

Sugar Kettles

Sperry, D. R. Co., Batavia Ill

Supplies—Foundry

Obermayer Co., S., Cincinnati, O

Supplies—Stove Dealers'

Brauer, A. G., Supply Co., St. Louis, Mo

Tacks

Hungerford, U. T., Brass & Copper Wks New York, N. Y

Tapes

Lufkin Rule Co., Saginaw, Mich

Technologist

Hooper, C. W. Dubuque, Iowa

Thermometers—Oven

Evans Stamping & Plating Co., Taunton, Mass

Tin—Perforated

Harrington & King Perforating Co., Chicago, Ill

Tinners' Furnaces

Burgess Soldering Furnace Co., Columbus, Ohio
Clayton & Lambert Mfg. Co., Detroit, Mich
Dieter Mfg. Co., Geo. W., Chicago, Ill
Turner Brass Works, Sycamore, Ill

Tinners' Tools

Armstrong, Blum Mfg. Co., Chicago, Ill
Auld & Conger Co., Cleveland, O
Berger Bros. Co., Philadelphia, Pa
Bertsch & Co., Cambridge, Mass
Lufkin Rule Co., Saginaw, Mich
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson Mfg. Co., J. M., Cincinnati, O
Smith & Hemenway Co., New York N. Y
Wagner, C. DeWitt, Cedar Rapids, Ia
Weiss & Co., H., New York, N. Y

Tinplate

American Sheet & Tin Plate Co., Pittsburg, Pa
Eller Mfg. Co, Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Merchant & Evans Co., Philadelphia, Pa
Taylor Co., N. & G., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va

Tinware Trimmings

Berger Bros. Co., Philadelphia, Pa

Tools, Etc.

North Bros. Mfg. Co., Philadelphia, Pa
Richards Mfg. Co., Aurora, Ill

Tools—See Carpenters' Tools

Tools—Linemen's

Smith & Hemenway, New York, N. Y

Trowels

Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Inc., Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y

Tubing—Heavy Tin

Dieckmann, Ferdinand, Cincinnati, O

Ventilators

Badger Steel Roofing & Corrugating Co., La Crosse, Wis
Berger Mfg. Co., Canton, Ohio
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago Ill
Globe Ventilator Co., Troy, N. Y
Herrin Co., J. M., Warsaw, Ind
Iwan Mfg. Co., Streator, Ill
Merchant & Evans Co., Philadelphia, Pa
Pullman Mfg. Co., Rochester, N. Y
Uno Ventilator Co., Lynn, Mass

Washers

Columbus Bolt Works., Columbus, O

Washing Machines

Bremmer, H. F., Mfg. Co., Davenport, Ia
Paxton & Gallagher, Omaha, Neb
White Lily Mfg. Co., Davenport, Ia

Wire

American Steel & Wire Co., Chicago, Il

Wire Goods

Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Paid Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they "READ THE ADVERTISEMENT IN THE AMERICAN ARTISAN."

BUSINESS CHANCES.

PATENTS HUBERT E. PECK 623 F. Street, N. W.
Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications."

Partner Wanted—In well established hardware and implement business in central Illinois. Address L-7, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 7-3t

For Sale—Furnace and general job work business and residence. Good business in a county seat in eastern Iowa. Fine surrounding country. I am old enough to quit (76). For full particulars address L-8, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 7-3t

For Sale—Tinshop and plumbing shop combined. Only shop in city of 2,000. County seat Jefferson Co., Oklahoma. Large territory. Contracts and work cash. Good trade established. Other business requires my attention. This is a good proposition that will pay you to look into. Address George J. B. Wright, Ryan, Okla. 7-3t

Wanted to Rent—Repair shop in connection with hardware store in good country town where good man is wanted to do all kinds of tinwork, plumbing, pump, windmill work, gas engines, etc., by good all around hardware man. Or want a good job. Can furnish best references. Address with particulars, Elgin Engraving Co., 341-343 E. Plum St., Elgin, Ill. 7-3t

For Sale — Hardware, established 34 years. Cash business. Money maker; growing trade; nice stock; good town; fine farms; best soil. Will retire; can be had right. Now is your time. If interested write or call on B. B. Myers, Nevada, Ohio. 6-3t

Old tinner wishes to sell tinshop and roofing business in northern Iowa. Good county seat town. Established trade. Shop 20 by 55 feet; warehouse 16 by 40 feet. Small five-room house on lot 50 by 150 feet. All tinners' tools—brake circle, shears, square shears, etc. Employment for three workmen and more at times. Property worth over $3,000. Will sell for $2,100. Address Box 447, Cresco, Iowa. 6-3t

For Sale—Or will exchange for real estate, my stock of hardware, stoves, paints and fixtures. Invoices about $4,500. Located on the northwest side of Chicago. Address L. Greenheid, 767 Armitage Ave., Chicago.

For Sale—On account of sickness owner will sacrifice ten thousand dollar stock of general hardware in a northern Illinois city of 10,000 inhabitants. This stock must be sold at once. Seventy-five cents on the dollar takes it; no trade. Write for particulars. Address L-4, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 5-3t

For Sale—Stock of hardware, including tin shop, located in Lake County, Illinois. Failing health reason for selling, and must go West. Good chance for tinsmith. For further particulars address L-2, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 5-3t

TINNER'S TOOLS.

For Sale—Tinners' tools, $75.00. Send for list to W. J. Padelford, 16 Bristol St., Adrian, Michigan. 6-3t

For Sale—Good set of tinners' tools, nearly new. Will sell cheap. Address Hill & Martin, Independence, Missouri. 6-3t

For Sale or Exchange—Set of tinner's tools, also four good show cases and one new gun case. Would exchange for a typewriter, cash register, or motor cycle. Address L-5, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 5-3t

Wanted—30" or 31" x 1½" or 2" Stove Pipe Formers. Must be in good condition and cheap. Also 30" Sheet Iron Folder. Address Adolph Scheid, Mishawaka, Indiana. 5-3t

For Sale Cheap—1 2x37-in. forming rolls, 1 20-in. groover, 1 wiring machine, 1 setting down machine, 1 40-in. hollow mandrel, 1 blowhorn stake, 1 square stake, 1 bench plate, 1 30-in. wood roofing folder, 1 stove truck, all in good condition; some are new. Address 52 Best St., Dayton, Ohio. 5-3t

HELP WANTED.

Wanted—First-class all around tinner. Good steady job for a good man. Address Scott Mfg. Co., Robinson, Ill. 7-2t

Wanted—Tinner and clerk. Must be sober and honest. Steady work. Write us stating wages, experience, also give references. Browder & Browder, Albion, Neb. 7-3t

Wanted—All around tinner, plumber and furnace man. Steady job the year around. Married man preferred. No booze fighter need apply. Address The McCarthy Hardware Co., Mankato, Kan. 7-3t

Wanted—Foreman for tin and cornice shop. One who can manage men and carry out the business in absence of owner. Address C. C. Kraus Co., 1337 W. Lombard St., Baltimore, Maryland. 6-3t

Wanted—An experienced man to clerk in hardware and stove store. Good town of 3,000 people and fine schools. Married man preferred. Address Paul M. Whaley, Oxford, Ohio. 6-3t

Wanted—A first-class all around tin and sheet iron worker. Must be steady and reliable. Wages $3.00 per day, and steady work guaranteed. Address L-3, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 5-3t

Wanted—A sheet metal worker and plumber. Steady work to the right kind of a mechanic; one that can make estimates. Good wages. Apply to The Geo. Wilson Hardware & Supply Co., Florence, Colorado. 5-3t

SITUATIONS WANTED.

Situation Wanted—By first-class tinner and furnace man with twenty years' experience in trade. Fifteen years' practical experience in furnace work. Strictly temperate and reliable. Permanent position is wanted with firm who will appreciate good man. Address L-9, care of THE AMERISAN ARTISAN, 355 Dearborn St., Chicago. 7-3t

Situation Wanted—By first-class tinner and sheet metal worker. Address Carl Storch, 69 Walton pl., Chicago, Ill. 7-3t

Situation Wanted—By good all around workman. Twenty years at the trade. Can do good job country plumbing, steam, hot water and warm air heating. Strictly sober. Married. Nothing but steady job year around considered. State wages. Address L-10, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 7-3t

Situation Wanted—By first-class sheet metal worker. Eighteen years' experience in general jobbing, furnaces, cornices and bench work. Sober and steady. Competent to take charge of shop. West or Southwest preferred. Address, with particulars, Box 27, Oswego, New York. 6-3t

Situation Wanted—By first-class tinner. Twenty-five years of age. Speaks German and English. Good habits, honest and reliable. Address, for particulars, Reedsburg Hardware Co., Reedsburg, Wisconsin. 6-3t

Situation Wanted—By first-class tinner with twenty years' experience in hot air, furnace and general job work. Strictly temperate. Address L-6, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 6-3t

Situation Wanted—By first-class plumber, steam and hot water man. Can also do gas fitting. Am steady, sober and a thorough mechanic. Address P. O. Box 144, Mount Carroll, Illinois. 5-3t

Situation Wanted—Plumber, steam and hot water fitter, in all its branches. Can assist at tinning. Want work in small town. Address Jesse M. Wildrick, Ellensburg, Washington. 5-3t

SPECIAL NOTICES.

SALESMEN WANTED

Experienced travelers with successful records and best references. Men familiar with tinware and enameled ware. Territory—Northern Illinois, Arkansas, and Southern Missouri. Address, The Republic Metalware Co., 1532-36 Wabash Avenue, Chicago, Illinois. 6-3t

FOR SALE

The cleanest, up-to-date hardware stock with tin shop in connection in state of Michigan. Doing a good business in a live factory town of 2500 population. Surrounded by excellent farming country. Only one other hardware in the town. Will inventory between $4,000 and $5,000. Good reasons for selling. Must be sold within thirty days. Address Charles M. Edelman, Lowell, Michigan. 4-4t

COMPETENT STOVE SALESMAN

Wanted for Indiana or surrounding territory. Address B-10, care of THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago. 7-1t

First Class Traveling Salesman

Wanted for Virginia and the Carolinas. Also one for New York State. Must be fully posted in Tin Plate, Metals, etc. None but thoroughly experienced men need apply. Address B-9, care of THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago. 7-1t

STOVE FOUNDRY FOR SALE

On account of moving to larger quarters we will sell our present plant, consisting of one story frame buildings, about 22,000 square feet of floor space. Address The Independent Stove Co., Detroit, Michigan. 7-1t

Superintendent

Wanted by an Ohio Stove manufacturer, beginning manufacture of gas ranges and heaters. An experienced and competent superintendent to take charge of gas goods manufacturing. Address, giving age, experience and wages wanted, "Superintendent," care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 5-4t

Sheet Metal Worker Wanted

With experience operating power cornice press, one familiar with fireproof metal window frames. Steady employment. State experience and wages expected. Address F-10, care of THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago. 17-ufs

Salesman Wanted

To carry a good line of Stove Polish as a side line. Cash commission basis. Address for full particulars, K-25, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 6-4t

SOLDERENE FLUX TUBE PASTE

put in collapsible tubes, a most convenient form, always clean, easily portable, for the bench, tool bag or pocket. **We have specialties of all varieties and sizes to meet the requirements of all users of Solder and Soldering Fluxes. Write for terms to the trade on Solderene Stick, Solderene Flux Stick, Solderene Paste, Aluminum Solderene Stick and others.**

SOLDERENE CO., Boston, Mass.

SPECIAL NOTICES.

Factory For Sale

Stove factory, with complete modern equipment, manufacturing oil heating, oil cooking, gasoline, alcohol and lamp stoves, ovens and steel ranges. Well assorted manufactured stock. Also material raw and in process, cash account, unfilled orders, patterns and patents. Business has been operated continuously and has well established trade. Building new; cement and steel construction. Full sprinkled. Property comprises iron foundry, brass foundry, japan and nickel plating departments, press department, machine shop, model power and heating plant, fine office, ample storage, machinery and all equipment, new and first class. Sale by public auction to highest bidder September 18, 1908, at Ann Arbor, Michigan. Inventory can be inspected after September 1 at the office of Register of Circuit Court, Ann Arbor, Michigan, or office of Detroit Trust Company, Receiver Glazier Stove Co., Chelsea, Michigan. 7-5t

FOR SALE OR EXCHANGE

1 pair Formers 2" x 30".
1 Square Shears 30".
1 Small Turning Machine.
1 pair Bench Shears.
1 Stove Pipe Folder (Wright's)

Could use Wiring Machine, Needle Case Stake, Blow Horn Stake, Stove Pipe Crimper, 24" or 30" Bar Folder, Setting Down Machine, Etc. Address 421 W. 75th Street, Chicago, Illinois. 7-1t

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NEW BRIGHTON, PA., U.S.A.
MANUFACTURE
A Full Line of Horse Nails
Send for Catalogue, Prices & Samples.

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BLACK SILK STOVE POLISH

Use Black Silk Stove Polish on your sample stoves and recommend it to your customers. It will make friends for you and increase your sales and profits. Buy from your jobber.

BLACK SILK STOVE POLISH WORKS, STERLING, ILL.

EVERY LITTLE BIT HELPS

BE PROGRESSIVE **MAKE MORE MONEY**

If you have a Tin Shop or Sheet Iron Works you may **add a profitable branch** to your business manufacturing patented sheet iron articles for us. Sell from one to several hundred dollars each. **One man cleared $600** in the last twelve months in this side line. A contract would be an asset in your business.

Information FREE **Trial Patterns FREE**

Pin this ad to your letterhead and mail to us for full details.

SMITH & MERRILL, 10 Cary Building, MILWAUKEE, WISCONSIN

Public Sale

Fort Wayne, Ind., June 26, 1908.

The undersigned committee was this day appointed to sell "At Public Auction," all the assets of the Wayne Stove Co., now dissolved, consisting of Wood and Iron Stove Patterns, Follow Boards, Patents for United States and Canada, and one dozen stoves, office furniture, chairs, one roll top desk with safe to match, one table, one truck, furniture and fixtures, etc. Said sale to take place at the H. E. Branning Homestead, southeast corner Fairfield and Rudisill Avenue, south of the city of Fort Wayne, on the 21st day of August, 1908, at 10 o'clock A. M. Said articles will be sold regardless of cost, to the highest responsible bidder for cash or bankable papers. For further information call Wm. H. F. Moellering, Home Phone 6213, or Samuel Holtzmann, Standard Oil Works, City.

THE COMMITTEE:
Wm. H. F. Moellering, Chairman
Henry E. Branning,
Richard Franke 4-6-7

Can't Get Along Without It.

MR. DANIEL STERN,
69 Dearborn St., Chicago, Ill.;

Dear Sir—Kindly find enclosed $2.00 for my AMERICAN ARTISAN, which I cannot get along without. I find in its columns much of interest to me.

Yours respectfully,
S. J. PELZ.
Kingston, Ill. 9-7

Wanted to Buy Patent for Sheet Metal Window Frames

Shop Rights to manufacture in Illinois an accepted fire proof metal window frame and sash. Enclose drawing and state price. Address "Illinois", care of THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago. 17-ufn

The expense and annoyance of painting will not recur every year or two if you use

Dixon's Silica-Graphite Paint

the "Proven Shield for Steel Work." Durability records in all climates; write for a few.

JOSEPH DIXON CRUCIBLE CO. **Jersey City, N. J.**

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THE PLACE TO BUY

Stove Dealer's Supplies and Stove Repairs

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American Stove Repair Works

STOVE AND FURNACE REPAIRS

PROMPT SHIPMENTS

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Manufacturers' Stove Repair Co.

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Prompt Shipments. Give Us a Trial.

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REPAIRS TO FIT ALL STOVES AND FURNACES

Courteous Treatment — Prompt Shipments
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of Oven Thermometer Is

THE "ACME"

THE "ACME"

MADE BY EVANS STAMPING AND PLATING COMPANY TAUNTON, MASS.
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SPERRY'S CALDRONS

Full measure, guaranteed perfect, original patterns, with metal distributed where it is needed. Many Caldrons are made from our casting as patterns. They are inferior to originals, as they have light bottoms and heavy sides and hold less.

Twelve sizes always in stock.

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These Two—
No. 670
Heavy Stove Plate Facing
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National Return Facing
will give you clean, smooth castings with that dark-blue color you like to see. Let us send you a barrel of each on approval.

The S. Obermayer Co.
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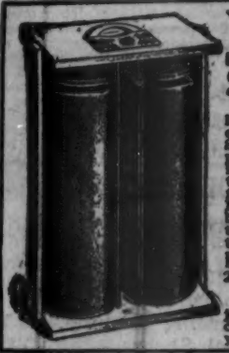

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Russia Finish, pat. lock
Stove Pipe
It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes. Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States. Mfg. by
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DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS
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For Stoves and Heaters
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Also a full Line of Galvanized Iron Leader Gutters, Ridge Roll, etc.

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Manufacturers and Dealers
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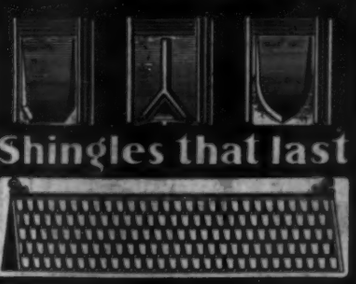

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Made from Galvanized Tin and Painted Tin
Storm, Rust and Fire Proof
Do you want to increase your business? This is Your Opportunity. Write for catalogue samples and prices.
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JERSEY CITY, N. J.

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as well as an all-the-year-round protection is found in a roof covered with

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32 POUNDS COATING

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"The Terne which turns the elements"

In the scorching summer heat it will not buckle, warp or form a tinder box for fire; nor will it run and clog gutters and streak the paints; nor crack and fall off—as do some other roofing materials. Once M. F. is properly put on, it stays put—lessens the fire risk, precludes a water risk and will save you money from endless repairs.

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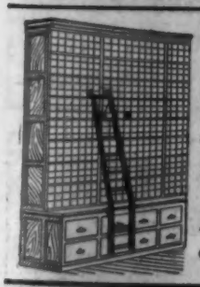

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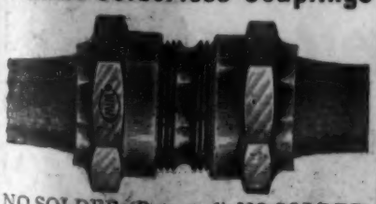

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Do away entirely with wiping joints. A practical article and BIG SELLER.
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TOP-NOTCHER
40 lbs. Coating

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High grade but NOT 2 high priced

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For Fire Doors and Shutters

Made to conform strictly to specification of the NATIONAL BOARD OF UNDERWRITERS.

Each Sheet Stamped with Brand and Thickness.

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When Ordering **Charcoal Iron Conductor Elbows**

Specify With

GUARANTEE *F. Dieckmann* Stamped in the Metal.

CHARCOAL IRON

Makers of the Elbows which can be erected without Refitting and Solder, save Labor and Material.

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DIXIE METAL SHINGLE ROOFING

FIRE PROOF. WEATHER PROOF.
Two Kinds: Paint or Galvanized.

Will not Buckle in Hot Weather nor Pull Apart in Extreme Cold Weather.

Metal Shingles are suitable for buildings of all sizes or kinds, where the pitch of the roof is one-fourth or more. They are especially desirable for Towers, Gables, Mansards, Bay Windows, Belt Courses, Siding for Cottages, etc. We use only the best quality of Terne Roofing Tin in their manufacture—and after the shingles are stamped into shape, they are either Painted or Galvanized. The cost per year of service of Metal Shingles is less than that of any other form of Fire Proof Roofing.

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GALVANIZED
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MOST ORNAMENTAL AND LOWEST PRICED MADE

SEND FOR PRICES AND ILLUSTRATED CIRCULAR.

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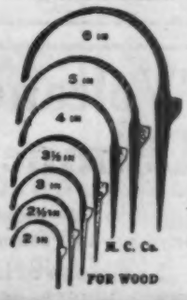

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Eaves Trough, Conductor Pipe, Roofing, Siding, Sheets, Etc.
ARCHITECTURAL SHEET METAL WORK.

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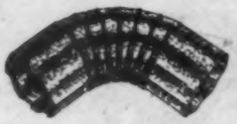
"MILWAUKEE" ELBOWS



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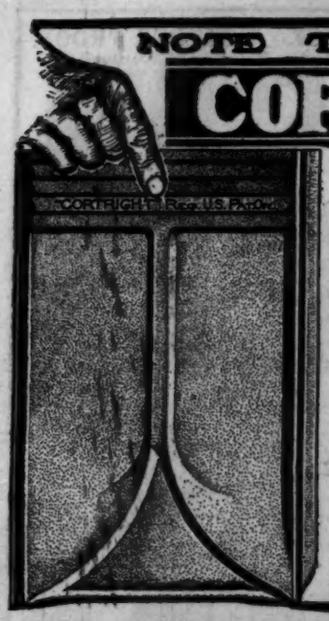
CUT OFFS
MITRES, ENDS AND DROPS
ROOFINGS AND SIDINGS
STEEL CEILINGS
CORNICES
SKYLIGHTS

Quick Shipments Our Specialty *Send for Catalog*

NOTE THIS STAMP, EVERY GENUINE

CORTRIGHT SHINGLE

HAS IT



IT stands for a quality that you tinners are especially able to appreciate. CORTRIGHT SHINGLES also stand for the best paying proposition that has ever been offered you. Think of it—you can lay a CORTRIGHT METAL SHINGLE ROOF in one-fourth the time required to lay the plain tin kind. No cutting and fitting, no soldering, just nail them on. The sidelock makes them the tightest roof possible and yet allows for expansion and contraction. They're handsome and durable; fireproof, stormproof, they open a new field for the tinner because they're supplanting the slate and tile roofs everywhere. See the point? Keep your eye on the profit—that's what counts. Our 56-page illustrated booklet free on request.

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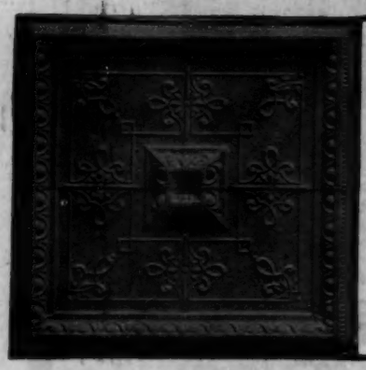

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Plecker's *Corrugated* Expanding *Conductors*

Have no Cross Seams. Made of Galvanized Iron in [redacted] Will not burst when full of ice. ten-foot lengths.

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Iwans' Volcano Revolving Chimney Top

Sizes 6 to 12 inches. Sold by jobbers of Hardware and Tinners' Supplies.

Notice one of its **Strong Features.** The upward sloping opening in back of hood creates a constant upward draft, no matter how depressing the atmosphere.

You need it for some of your customers' chimneys.

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STREATOR, ILL.

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A sure cure for smoky chimneys, the best for ventilation.

4" to 30"

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Guarantees Pure Water in Your Cistern

It permits only pure, clean rain water to enter the cistern. It automatically carries the first sooty, filthy drainage from the roof to the waste pipe, and not until the water runs clear and pure does it go into the cistern.

IT IS AUTOMATIC—SET IT ONCE

No more going out in the rain—no more trouble or cleaning cisterns—pure, clean water always.

Write for circulars prices and full information

THE HENKEL MFG. CO., Canal Dover, Ohio

The drummer sometimes earns his duce;
'Tis said the "Cat" will never lose;
But Advertisements *always* pay;
They're somehow *always* in the way.

DISCRIMINATING DEALERS ENDORSE "ELLER"

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EAVES TROUGH, CONDUCTOR PIPE
ELBOWS and SHOES

STEEL ROOFING
BRICK and STONE SIDING
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"The ELLER trade-mark stands for the best in steel." *Write to-Day* for Catalog.

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Easy to Erect. The Plates are Accurate. Beautiful Designs, and Perfect in Every Detail. Write for CATALOG "A."

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We have the best Pure Copper Cable

Lightning Rods

and fixtures on the market, and to prove what we say is right, we are willing to send any firm a sample outfit and they can look it over, and if it is not the best they have ever seen, and not satisfactory in every way, we want the whole shipment returned at our expense and it costs them nothing. We manufacture all our own goods and know just what they are and we want every hardware dealer to write to us for prices and territory. We give a $500.00 guarantee and also one of our improved static machines.

WRITE TODAY TO

Maher & Son Lightning Rod Co., Preston, Iowa

"ELECTRA" PURE COPPER LIGHTNING RODS AND FIXTURES

NOTHING BETTER PRICES RIGHT WRITE US

To convince you we mean what we say, let us ship you an outfit upon approval. If you don't like it, you may return it to us at our expense

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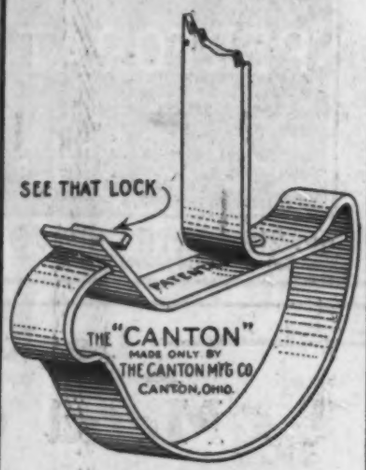
When Mistah Johnsing jines Miss Liz
He got to do some walkin',
She shows him all de steps dey is,
An' ain' no time fo' balkin',
Jess so in trade—to take de cake
Yo' got to step su'prisin',
Wake up, an' keep yo'self awake!
Why ain't yo' ADVERTISIN'?

The
LATEST and BEST



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is the strongest and most economical Eave Trough Hanger on the market.

Ask for Prices.

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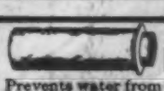
Manufacturers of Cornice, Skylights, Ventilators, Metal Ceilings, etc.

LIGHTNING RODS

We manufacture Pure Copper Wire Cable Lightning Rods, made of 28, 30 and 49 Wires, with complete outfit of trimmings.

E. A. FOY & CO., Cincinnati, Ohio

Trade Supplied at Lowest Rates. Send for Catalogue "B."



Celebrated
Meier Drain Trap

Prevents water from backing into cellar when water rises in the sewer. Lets water out of cellar. Keeps out sewer gas. Guaranteed. Any one can attach. Pat. applied for. Write for particulars.

THE MEIER DRAIN TRAP MFG. FACTORY, UPPER SANDUSKY, OHIO

THE HARRINGTON AND KING PERFORATING CO.

PERFORATED METALS
OF EVERY DESCRIPTION AND FOR ALL PURPOSES
FOR SCREENS OF ALL KINDS

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Lock Joint
Metal Ceilings

Handsome Panel Effects
Special Designs Submitted on Request
Artistic Combinations
Perfect Joints
Absolutely Dust-Proof

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will convince you that "Canton" Metal Ceilings have a construction that is unequaled. The alignment is straight and regular, which means a saving in time and expense in the erection. Expense of erecting is where you find your profit. Art in Canton Metal Ceilings is one of the features. Complete assortment of classified designs. Our Art Metal Book "H" for a postal. It's up to you.
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Soldering Furnace

And You Will Make No Mistake

Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.
Galvanized Iron, Brass or Copper Reservoir
Equipped with Cylindrical Slotted Burner
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HELL Cannot be hotter than our No. 10

Noiseless, No Odor, No Smoke.
More Heat with Less Fuel.
Greatest Range of Heating.
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Coppers Indoors or on a Roof.
Order of your Jobber, or we will ship direct for $6.50, on 30 days approval.
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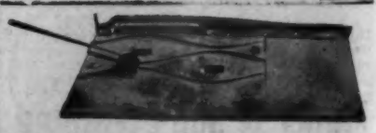

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Will save time and money in making elbows and when used in connection with a cornice brake light iron can be cut any width and length. Buy a set before your competitor does. These shears are thoroughly guaranteed to give satisfaction or no sale. Made by
C. DeWITT WAGNER, Cedar Rapids, Iowa

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Improved Quick and Easy, Rising Steam, Electric and Hand Power.
SEND FOR CIRCULAR.
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"TARGET and ARROW Old Style"

Brand of

ROOFING TIN

made only by N. & G. Taylor Co., at their works at Philadelphia. This brand of tin is exactly the same durable quality sold for more than fifty years. The evidence to prove the value of this tin as a permanent, weather-proof, fire- proof roof covering is overwhelming. Roofs of this old-time hand-made tin still giving good service after ten to fifty years' wear, and hundreds of letters written us in the last three years by Architects and Roofers, bear witness to its lasting qualities. This is the only tin now made according to old-time standards of manufacture—the only tin made entirely by hand and of materials that have proved in use on the roof to be the best for the purpose.

No need to puzzle over this or that method of manufacture or material for making tinplate nowadays, when you can get the same durable tin that has made the name of "Taylor" famous in the tinplate trade. Roofers who use "TARGET and ARROW Old Style" tin and use it right, are a well satisfied class, steadily building reputations for good roofing work.

You can get this brand of tin promptly from all leading wholesale hardware jobbers throughout the West, or direct from our stocks at

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Send for free booklets, "A Guide to Good Roofs", "Some Roofing-tin Don'ts", "Terne and Tin Plate", "History of the House of N. & G. Taylor Co.," "Good Roofing-tin", "Tin Roofer's Hand Book", Etc

N. & G. TAYLOR CO.

Manufacturers of TIN and TERNE PLATE of all kinds

ESTABLISHED 1810 **PHILADELPHIA**

Rostand
TRADE MARK

People will ask for goods bearing this mark, because we are telling them by means of extensive advertising that Rostand represents the best values, most beautiful patterns and best finish in Brass Fireplace fixtures, candlesticks, etc.

Get our line and you will sell the goods.

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THE ROSTAND MFG. CO.

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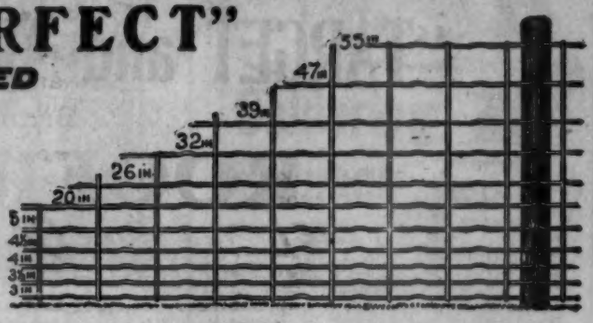
THE VERY STRONGEST FENCE MADE

"PITTSBURGH PERFECT"

ELECTRICALLY WELDED

Fences



will curb in the strongest beasts. Can be adjusted to uneven ground. Are a sure cure for all fence troubles and will last longer than any other on the market. Dealers wishing to handle a line of goods which will prove ready sellers should carry the

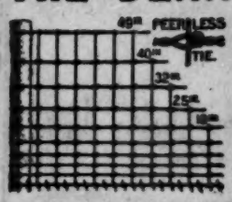
"Pittsburgh Perfect Brands"

of Wire Rods, Bright Annealed and Galvanized Plain Wire, Barbed Wire Wire Nails, Fence Staples, Steel Hoops, Bands and Cotton Ties.

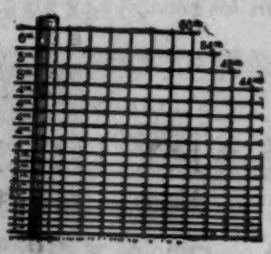
MANUFACTURED BY THE

Pittsburgh Steel Co., Pittsburgh, Pa.

THE DENNING FENCE



For yard and pasture has no equal. Our Peerless Cabled Fence with barb wire in the bottom turns hogs, absolutely. We beat the world on Poultry Fence. We make perfect Barb Wire. We ship mixed cars Woven Fence, Barb Wire and Nails.



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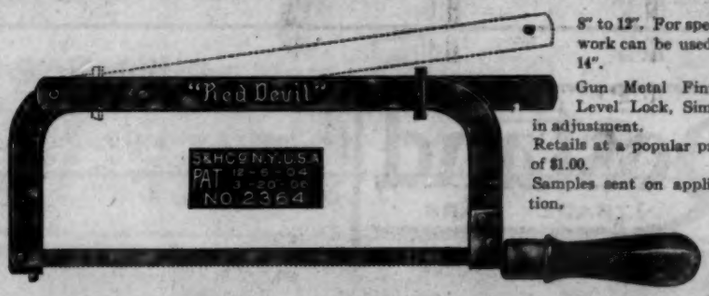
THE DENNING WIRE & FENCE CO., Cedar Rapids, Iowa.

Genuine "RED DEVIL" Hack Saw Frame



8" to 12". For special work can be used on 14".

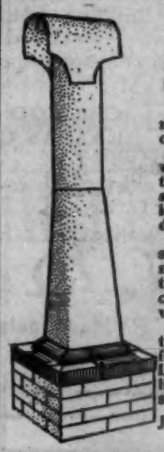
Gun Metal Finish, Level Lock, Simple in adjustment.

Retails at a popular price of $1.00.

Samples sent on application.

Order through your jobber or direct from us. Insist upon the Genuine "RED DEVIL."

SMITH & HEMENWAY CO., 108-110 Duane Street, New York City



Herrin's Universal
Adjustable Cast Iron
STACK BASE
For Chimney Caps and Stacks

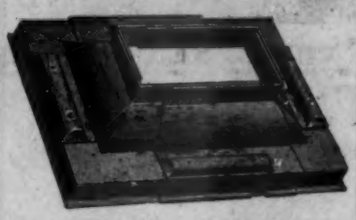
The only Stack Base made that is put on without mortar.

Absolutely prevents water from running down the inside of the chimney and at the same time keeps it from following down the outside.

Absolutely firm. Preserves the top of the chimney and does not loosen the brick or harm the chimney when the galvanized pipe is replaced.

By removing the bolts this base will fit four different size chimneys. Looks well and will last a life time. Write for descriptive matter.

J. M. HERRIN CO., Mefrs., Warsaw, Ind.



Thousands in Use and the Demand Constantly Increasing

Richards' Hero Trolley Ball-Bearing House Door Hanger

No. 19

Noiseless fibre wheels. Wood header is furnished with track and is easily put up. Track can be easily adjusted or taken down after walls are plastered.

Manufactured by

The Richards Manufacturing Co., Aurora, Ill., U. S. A.

Door Hangers for Sliding Doors of Every Description. Fire Door Fixtures.
SEND FOR CATALOGUE

Blick No. 3 The Best Box

For Rural Free Delivery

Be Just With Customers

Sell them Blick No. 3 boxes. They are big ones, 6½ x 8½ x 19 inches. Made of heavy galvanized steel. Painted green, the new government color. Same shape and color as city boxes. Have Positive Locking Flag Signal, Automatic Latch, Watertight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

Blick - Williams Co.
Indianapolis, Ind.

Put That Advertisement in THE AMERICAN ARTISAN If You Want Results

LUFKIN Measuring Tapes

are made in every conceivable variety, to suit every purse and purpose, but all of the same superior quality.

¶ Our extensive advertising creates a demand, that every progressive dealer should be able to satisfy.

¶ It takes but a minute and a postal to ask for our catalog—it's more than worth while.

Please Mention The American Artisan

THE LUFKIN RULE CO. Saginaw, Mich., U. S. A.

New York London, Eng. Windsor, Ont.

DISSTON SAWS

Run Easiest
Cut Fastest
Last Longest

To the practical Saw User this tells the full story of HIGHEST PERFECTION in Material, Temper, Design and Workmanship attained for the DISSTON BRAND OF SAWS.

HENRY DISSTON & SONS, Inc.

Keystone Saw, Tool, Steel and File Works

PHILADELPHIA, PA.

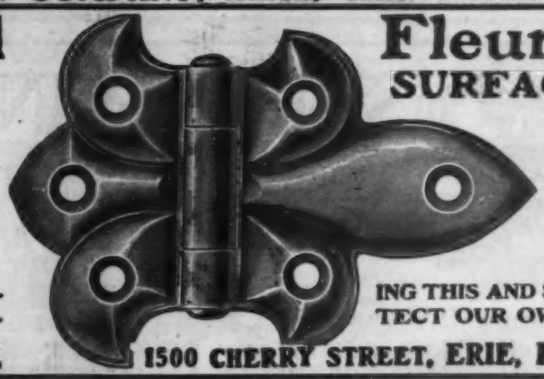
A NEW PATTERN STANDARD LEVEL—Two Level Glasses, One Plumb Glass

Side glasses may be reversed at any time; all easily adjustable; all glasses in plain view from both sides; brass trimmings on both sides.

No. 31—Solid Cherry.
No. 32—Three-piece Cherry.
No. 33—Solid Mahogany.

THE BAKER - McMILLEN COMPANY, Akron, Ohio.

The Original PATENTED FleurDeLis SURFACE HINGE



Dealers and Users Beware of Infringement.

Made in All Finishes. They Have No Comparison for High Class Work at Moderate Prices.

WE HAVE BROAD PATENTS COVERING THIS AND SIMILAR DESIGNS AND SHALL PROTECT OUR OWN

THE GRIFFIN MFG. COMPANY, 1500 CHERRY STREET, ERIE, PENNSYLVANIA

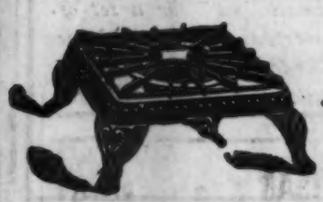
THE TAYLOR & BOGGIS FOUNDRY CO.

CLEVELAND, OHIO

Manufacturers of

Light Gray Iron Castings

BUILDERS' HARDWARE, DAMPERS AND DAMPER CLIPS, OIL AND GAS STOVES, FURNACE LAMPS, MOLASSES GATES, LETTER BOXES, HARDWARE SPECIALTIES.



"Yankee Tools"

New Styles—Have You Seen Them?

Are Without Equal in Quality or Efficiency in Practical Use

MAGAZINE RATCHET SCREW DRIVER, NO. 65

RATCHET DRIVER with SCREW HOLDER NOS. 110-111-115

RATCHET "SCREW EYE" DRIVER, NOS. 80 and 81

ASK YOUR JOBBER ABOUT THEM

Send for "Yankee" Tool Catalog.

North Bros. Mfg. Co., Philadelphia

The LENOX HOTEL
BUFFALO

Modern. High Grade. Fireproof.

OUR OWN RAPID ELECTRIC CARRIAGES, EXCLUSIVELY FOR PATRONS, operate continuously every few minutes from Hotel through Business District and to all Depots for principal trains.

EUROPEAN PLAN.

Rates $1.50 per day and upward.

GEORGE DUCHSCHERER, Proprietor

WOLVERINE KNOCK-DOWN CASE

Drawing Dollars Your Way

The best advertisement you can have is a bright, cheerful store, with up-to-date fixtures and show cases. The best moderate-priced show case you can buy is the

Wolverine Knock-Down Case

This case sets a new standard in popular priced cases. With heavy plate glass top, finished in handsome golden oak, with ball-bearing sliding doors, every merchant wonders how we can sell them at $5.00 a ft.

If you are interested in show cases, do not fail to write for full information about the Wolverine. *Write to-day for our special 60-day offer.* Address Dept. C.

MICHIGAN SHOW CASE CO.
51-53 Fort St. E., DETROIT, MICH.

Revolving Cases

for Bolts, screws, etc. SAVE TIME and MONEY

A necessity for Hardware Dealers, machine shops, pattern shops and in fact any one who handles small articles. Last indefinitely. Made octagonal or square as desired; also with blank drawer fronts with label holders. Descriptive booklet sent on application. Sold by all first class Hardware Dealers.

AMERICAN BOLT & SCREW CASE CO
Dayton, Ohio

SEE IT RUN!

Don't fail to look over the WHITE LILY GASOLINE ENGINE if you visit the State Fairs.

It is the best, simplest and cheapest 3 H. P. gasoline motor in the world. Air-cooled—automatically governed—fully guaranteed.

Will be on exhibition at Des Moines, Iowa, Topeka and Hutchinson, Kansas, Lincoln, Nebraska, Sedalia, Missouri, and Springfield, Illinois, Fairs.

If you can't come, write us for catalog and agency information.

WHITE LILY MFG. CO., 1500 Rockingham Road, Davenport, Iowa

Buckeye Paints

are unquestionably the best, most durable and economical line of paints manufactured.

Our products are designed to meet the wants of all classes of paint consumers. We guarantee all paints and varnishes bearing our name. Made of the best material obtainable.

Send for Catalogue.

Buckeye Paint & Varnish Co.
TOLEDO, OHIO

Belvidere, Illinois, June 11, 1908.

THE AMERICAN ARTISAN,
Chicago, Ill.

Gentlemen: We wish to thank you for the use of your valuable journal. We have recently been running a small "ad" for a set of tinner's tools which we wished to sell. In response we received one dozen letters, and in one day received two orders for the same set. This shows that your publication certainly reaches the "Hardware Dealers."

Respectfully,
E. W. LOWELL.

— SHELVING —
WARREN SYSTEM
SELF PAYING
HARDWARE STORE EQUIPMENT
IN INTERCHANGEABLE SECTIONS
& SCREW, BOLT & GUN CASES.
J. D. WARREN MFG. CO. CHICAGO U.S.A.

PAYS BIG RETURNS.

The many advantages the No. 1 Fire Pot possesses over other makes, warrants your earnest consideration. The most practical and powerful Fire Pot burner yet devised insures an intensely hot, easily regulated blue blast flame which quickly heats soldering coppers or melts a pot of metal. The burner never wastes fuel but operates perfectly and completely on half the gasoline ordinarily required. The fire pot is used as a torch by removing the top. A practical workman finds innumerable ways to utilize the No. 1. It is a veritable gold mine and pays big returns.

Jobbers supply at factory price, or we will ship direct if cash accompanies the order.

BEST FURNACE MADE

That is what we give you when buying our Bonanza Furnace. Galvanized Iron Tank. Automatic Brass Pump. Fully guaranteed.

Two sizes, No. 34—1 gal., price.....$6.00 net
No. 36—3 qts., price..... 4.50 net
Order from your jobber or send us amount. We will ship direct.

THE TURNER BRASS WORKS
26 Park Ave. Sycamore, Ill., U. S. A.

H. WEISS & CO.

20 Cliff Street, NEW YORK

Skylight Gearing and Chain Lifts

Tinsmiths' and Plumbers' Tools

Cornice Makers' Tools

Coppersmith's Tools

Pipe Threading Machines

Second-Hand Goods Bough Sold and Exchanged

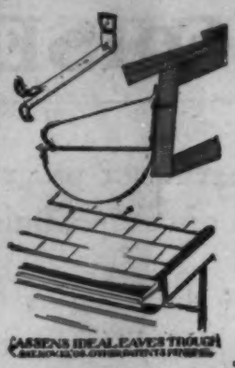
Punch, Shear and Bender Combined for ½" Iron

TREADLE PUNCH

This Treadle Punch is designed especially for Sheet Iron Shops. It is built with either foot treadle or overhead hand lever, or both combined, as desired. We build a complete line of Shears, Punches and Forming Rolls, all sizes for hand or power.

Write for Catalog "F."

BERTSCH & CO.
CAMBRIDGE CITY, IND.



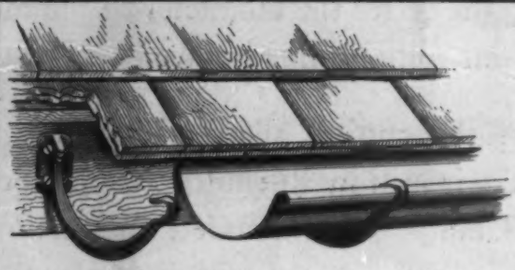
Takes LIQUID Only
Cassens' Ideal Eaves Trough

excludes trash of every description. Sand, Leaves, Snow, etc. absolutely cannot enter the trough, but it will take from 125 to 180 gallons of water per running foot in one hour.

Write for descriptive matter and exclusive territory.

Traveling Salesmen wanted to carry the IDEAL as a side line.

CASSENS MFG. COMPANY, Edwardsville, Ill.



A GLANCE AT THE
CENTURY one-piece Eavestrough Hanger

will convince you of its many commendable features, namely: **simplicity, strength, durability, neatness.**

Easily and quickly attached to building and trough.

Perfect alignment at bottom and bead. **Write for Free Sample and Prices.**

CENTURY SPECIALTY CO., Rochester, New York

BERGER'S GUTTER HANGERS PIPE FASTENERS

Leading Hangers and Fasteners Everywhere. Immense Stock and Variety. Ask for Sample and Catalog of our Tinners' and Roofers' Supplies.

BERGER BROS. CO.

OFFICE AND STORE: 237 Arch Street
WAREROOMS: 100-02-04 Bread Street
FACTORY: 2114-16-18-20 N. 17th St.
PHILADELPHIA

TOOLS FOR SHEET METALS

EXCELSIOR SQUARING SHEARS

INCLUDING

Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies. Can-making Machinery

MADE BY

Niagara Machine & Tool Works
BUFFALO, N. Y.

MARVEL

Patent applied for

PORTABLE PUNCH No. 20

Made entirely of STEEL

Punches ¼ in. hole in ¼ in. and equivalent

Let us send you one on trial.

Write for circular and price of this and other Marvel Punches and Shears.

ARMSTRONG-BLUM MFG. CO.,
106 N. Francisco Ave., Chicago, Ill.

C. G. Hussey & Company

PITTSBURGH, PENNA.

Manufacturers of

Soft Copper,	Copper Nails and Tacks,	Cold Rolled Copper,
Copper Gaskets,	Tinned Copper,	Special Shapes Sheared or Stamped
Copper Bottoms,	Polished Copper,	Slating Nails.
Soldering Irons		

PROMPT SHIPMENT FROM STOCK.

Some people pay out thousands of dollars a year for advertising. Do you think they are imprudent or reckless?

AUG 17 1908

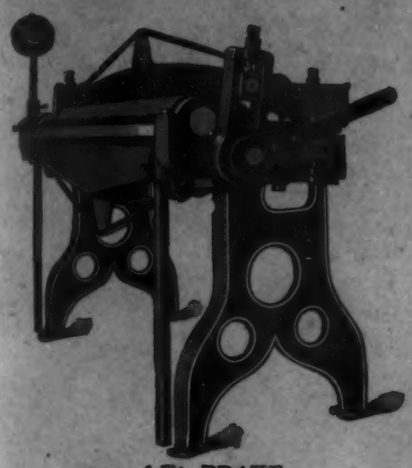
JUNIATA HORSE SHOES

The experience of forty-five years of progressive manufacture makes Juniata horse and mule shoes perfect in shape, finish and quality of metal.

The true worth of the Juniata shoe begins at our mines and continues through our blast furnaces where the different ores are amalgamated. In our own melting processes the character of the metal is established, and from thence through our rolling mills is given the final and unchangeable quality.

Then comes the cutting, shaping, creasing and punching, to do which our old Shoenberger mill in Pittsburg is equipped with every known modern appliance and facility, superintended and manned by men who have spent their lives in becoming masters, each in his particular line.

We offer the Juniata shoe as the product of the greatest mines, steel producing plants and fabricating mills in the world; and with these good facilities and the old and skilled employes back of them, is maintained the highest standard of excellence possible for human ingenuity to produce.



4 Ft. BRAKE
Capacity 12 Gauge.

CORNICE BREAK
Capacity, 20 Gauge and Lighter.

THE J. M. ROBINSON MFG. CO.

Manufacturers of Sheet Metal Working Machinery

3282 to 3288 Spring Grove Avenue — CINCINNATI, OHIO

As the wind is to the sails, so is advertising to the sales.

An ad in THE AMERICAN ARTISAN will bring sales.

We Can Please You Twice Over

All we ask is that you send us your name and address and we will send you all the particulars about our

Exclusive Agency Plan
FOR
Our "ROYAL BLUE" Washer

in your town. This is a most profitable proposition for you, Mr. Dealer, and it will pay you twice over to let us "put you next."

Remember: We are the largest washing machine manufacturers in the world—make fifteen different styles—have had thirty years experience in the business and know how to make it pay **you.**

Don't Argue—Don't Delay—Write Today

H. F. Brammer Mfg. Co. DAVENPORT, IOWA

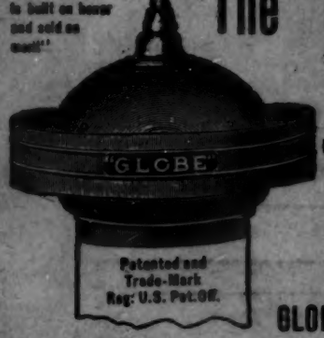
THE IMPROVED ONE-PIECE MITER

This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

J. E. WHITACRE MFG. CO.
ROCKFORD, ILL.
Manufacturers of Sheet Metal Specialties.

"The 'GLOBE' is built on honor and sold on merit"

The "GLOBE" Ventilator



in COPPER, GALVANIZED IRON and with Glass Tops for Skylight purposes.

ABSOLUTELY STORM PROOF
For Perfectly Ventilating Schools, Churches, Halls, Mills, Factory and Audience Rooms of Every Character
SMOKY CHIMNEYS CURED
"GLOBE VENTILATED RIDGING"
Send for Pamphlet
MANUFACTURED BY
GLOBE VENTILATOR CO., Troy, N. Y.

STAY-IN Flue Stoppers

are **guaranteed** to be absolutely soot proof. Cannot be jarred or blown from the flue hole.

Finished in Brass and Nicely Decorated

MANUFACTURED BY
STUBER & KUCK, Peoria, Ill.
We Also Manufacture PIECED TINWARE and All Styles of FLOUR SIFTERS

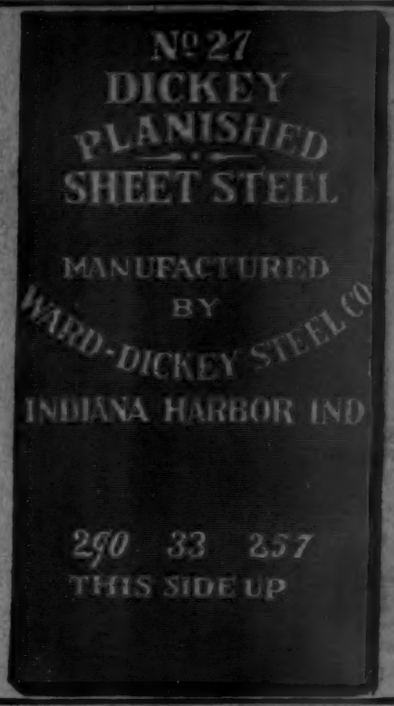
ANYTHING YOU NEED?

TIN, Bright or Roofing. *All grades for all purposes.*
SHEETS, Black or Galvanized.
ROOFING, Corrugated, *Painted or galvanized.*
ROLL ROOFING TIN, *14 in., 20 in. and 28 in. wide.*
NESTED STOVE PIPE, "Security" Brand. *Beats them all.*
SHEET COPPER. *All regular sizes in stock.*
CONDUCTOR PIPE, Eaves Troughs, Elbows, Wire,
TINNERS' TOOLS. *Complete shop equipment.*
SOLDER. *We sell the FINEST.*
ZINC. *Always on hand for prompt shipment.*

SHEET METAL WORKERS SUPPLIES OF EVERY KIND

Follansbee Brothers Co.

Makers of HAMMERED OPEN HEARTH ROOFING TIN
PITTSBURGH
LOUISVILLE, BUFFALO, MEMPHIS, CLEVELAND, MILWAUKEE, INDIANAPOLIS, NORFOLK, ROCHESTER, NASHVILLE, DETROIT, NEW YORK
Southwestern Distributors: Stockhoff Supply Co., St. Louis, Mo.



"THE BEST EVER USED"

writes one of our patrons.

Others endorse our goods with the following declarations:

"My customers give your make the preference over all others."

"On a difficult shape, we tried 80 pieces of another make, and all but two broke. We made 300 of same shape from your goods and not one broke."

Booklet sent on request.

SEASONABLE AND SALABLE

THIS IS THE SEASON FOR
Preserving Kettles

And we are in a position to supply the trade with the best designed Preserving Kettles on the market.

Our goods are first-class and sell at reasonable and popular prices.

We manufacture and can supply all the staple items in enameled ware.

OUR LINE CONSISTS OF OVER 300 FAST SELLING ITEMS
Star ★ Enameling & Stamping Co., PITTSBURGH, PA.

Trying to do business without advertising is like winking at a girl in the dark: you know what you are doing but nobody else does.

DO YOU SELL BOLTS & SCREWS?

Then why on earth don't you **supplement** your stock with **Star Expansion Shields** and realize on those inquiries for the

We Make All Kinds—All Sizes From ¼" to 2" Diam.
Catalog and Samples on Request
STAR EXPANSION BOLT CO., Bayonne, N. J.

The W. J. BURTON CO.

DETROIT, MICH.
Manufacturers of
Fireproof Metal Windows
"Glazed with Wire Glass,"
Made either Stationary, Pivoted or Sliding Sash.

Architectural Sheet Metal Work of All Kinds

In Ornamental and Fireproof Construction. Write for illustrated catalogue.

THE "CENTENNIAL"

RAIN-WATER CUT-OFF

The strongest, most durable and cheapest CUT-OFF on the market.

The only single cut off made to fit **Corrugated** and plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.

Manufactured only by
The Sullivan-Geiger Co.
19 and 21 East South Street, Indianapolis, Ind.